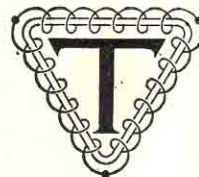




L M ERICSSON PTY. LTD.
(TRIMAX DIVISION)
MELBOURNE • AUSTRALIA

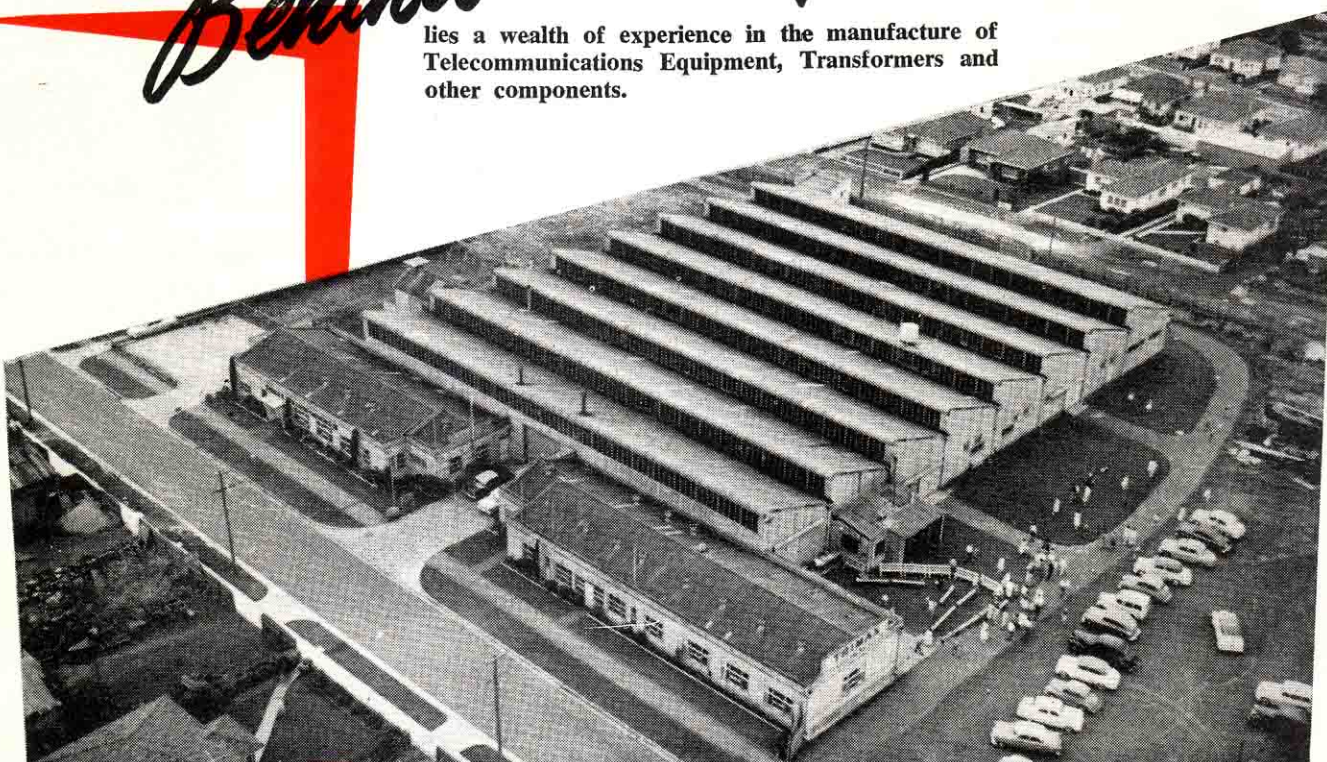
**T E C H N I C A L
C A T A L O G U E**

Ericsson
LM



Behind these symbols

lies a wealth of experience in the manufacture of
Telecommunications Equipment, Transformers and
other components.



This aerial view shows the modern factory and sales office of the Trimax Division of L M Ericsson Pty. Ltd. The "Trimax" story goes back almost three decades when the manufacture of electrical transformers, associated equipment and parts was commenced. The trading name of Trimax Transformers was selected and "TRIMAX" registered as a trade mark. Late in 1949 "Trimax" moved to its present new, modern factory, where improved facilities enabled increased production as well as the continuous development of new products. In 1961, L M Ericsson Telephone Co. Pty. Ltd. of Melbourne, a subsidiary of the L M Ericsson Group of Stockholm, Sweden, purchased a major interest in the Company and "Trimax" then became actively associated with a world pioneer in telecommunication, whose products range from the production of subminiature components to the design, manufacture and installation of complete telecommunication systems.

From its inception an outstanding factor in the rapid growth of our organisation has been our policy of complete customer co-operation. Our experienced and highly-skilled engineers have been able to design and manufacture special units as well as a full range of standard types of small transformers. Another basic policy which has proved highly successful was the decision that "Trimax" should be as self-contained as possible so that maximum control could be exercised over all manufacturing operations. As a direct result a comparatively elaborate sheet metal plant was installed which also enables us to manufacture a wide range of standard and custom-built sheet metal goods.

Through the use of fine materials, skilled design, and painstaking workmanship, the "TRIMAX" BRAND is famous today as identifying parts and equipment of the highest grade — incorporated by many manufacturers in intricate and expensive apparatus.

L M ERICSSON PTY. LTD.
(TRIMAX DIVISION)

CNR. CHARLES STREET AND WILLIAMS ROAD, NORTH COBURG, VIC.
TELEGRAMS AND CABLES: "TRIMAX, MELBOURNE." 'PHONE: 35 1203.

Registered Trade Marks: "Trimax" and "Meltran".

DESIGN

The ability of a transformer or item of electronic equipment to function satisfactorily depends firstly on design. Our wide experience in almost every application of small transformers enables us to design efficient economical units. This also applies particularly to amplifiers and electronic equipment which are included in our range of manufactures.



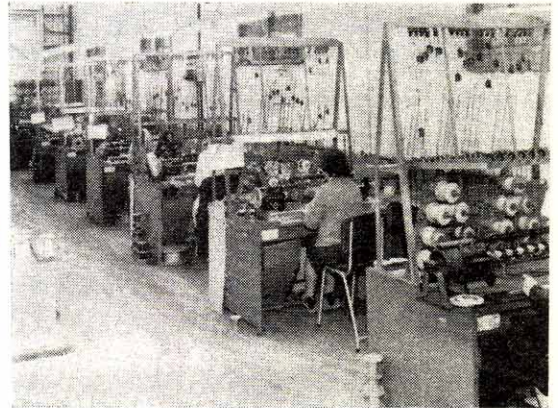
RESEARCH

Necessary adjuncts to good design are facilities for research and development. Our laboratory is fully equipped for this work with precision test equipment necessary to carry out all tests required on the full range of Trimax manufactures. Tests are possible from DC to 1 Megacycle. In addition, because of our well stocked library covering both text books and magazines, we seldom have need to turn to outside sources for information. Additions are regularly made of instruments and books to keep the laboratory right up to date.



COIL WINDING and TERMINATING

Special machines have been installed to cover the full range of wire gauges and coils. Winding can be done from singles to "sticks" of 20. Some of these machines have been designed and manufactured by ourselves, and one of our winding methods is covered by patents. Whether one coil only is being made or whether we use multihead fully automatic machines, to ensure complete reliability, only the highest grade materials are used.



IMPREGNATION

The enemy of electrical apparatus — moisture — is defeated right at the beginning by our scrupulous attention to thorough drying and impregnation of all coils. This is a photograph of our heated vacuum-pressure impregnating vat. Impregnations are of either micro-crystalline wax or high grade insulating varnish, depending upon the working conditions of the transformer.

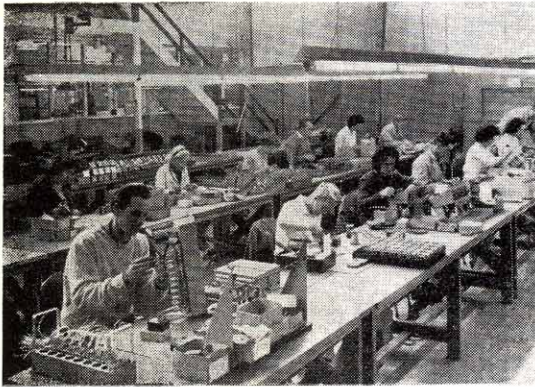
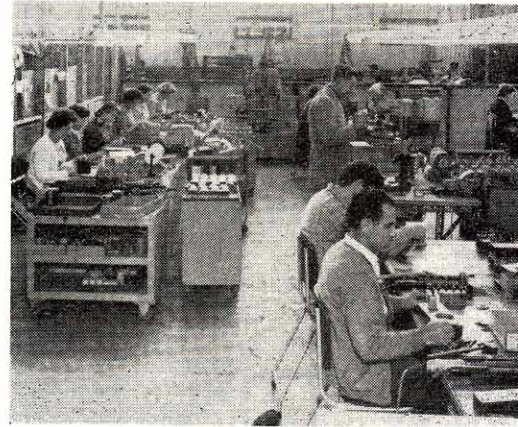


SHEET METAL DEPT.

To give the best co-ordination of production, laminations, metal clamps and cases, if not held in stock, are made in our well equipped sheet metal department while coils are being wound. Because of our wide range of facilities, many other lines as well as custom built units are made. These range from Mu-metal shields to cabinets and cases in aluminium to $\frac{3}{16}$ in. thickness, or steel to $\frac{1}{8}$ in.

ASSEMBLY

Assembly commences immediately parts are in the store. Special transformers are assembled by hand but where possible the coils are laminated in an automatic laminating machine. After laminating, any special casings — such as hermetic sealing — are fitted. When resin casting is used the laminated coils pass through the test laboratory for initial test and then to the resin casting department.



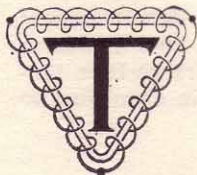
SPECIAL ASSEMBLY

This section specialises in the assembly of components such as attenuators, as well as amplifiers and other electronic equipment. Many intricate pieces of equipment are assembled in this section including our standard range of Ionisation testers, Flash testers and Voltage Regulating transformers. Incorporated in this department is a special equipment testing section completely set up for full electronic testing.

TESTING LABORATORY

After completion all products are thoroughly tested. This view shows the transformer production test room which handles most of the transformers produced. In special cases such as high voltage tests over 5KV and carrier frequency transformers the testing is performed in a section of our main laboratory.





Ericsson
LM



This is a view of the store which is centrally located and receives and distributes the many component parts used in Trimax Products. Packaging and despatch are also carried out in the store where care in packing means that you receive your order in perfect condition.

L M ERICSSON PTY. LTD.

(TRIMAX DIVISION)

CNR. CHARLES STREET AND WILLIAMS ROAD, NORTH COBURG, VIC.
TELEGRAMS AND CABLES: "TRIMAX, MELBOURNE." 'PHONE: 35 1203.

Registered Trade Marks: "Trimax" and "Meltran".

TRIMAX

CONDITIONS OF SALE



1. All prices are subject to alteration without notice.
2. Cancellation of orders placed and accepted can be made only with our written consent, and upon such terms as will indemnify us against loss.
3. Prices quoted cover delivery F.I.S. in the city area of Melbourne, Sydney and Adelaide. This also applies to Brisbane, Perth, Launceston and Hobart providing the order is for a minimum of £20, one delivery. If a method of transport is specified which, in our opinion, is not the most economical, the freight would be to the buyer's account.
4. Due to causes outside our control, we are not always in a position to guarantee delivery by any fixed date, and although every endeavour is made to effect delivery on time, under no circumstances is the Company to be liable for any delay in delivery.
5. The acceptance of returned goods by the Company does not necessarily entitle a credit for them. Credit will only be allowed:—
 - (a) Where the goods are returned through the supplier within ten days, and
 - (b) When the claim has been examined and found correct.
6. Any Trimax products proved to the satisfaction of a representative of the Company to have failed to correspond with the description or to have been defective in material or workmanship whilst being used under normal working conditions as defined by the Company will be made good or replaced at the factory if the claim is made within **BOTH** ninety days from the date of sale and twelve months from the date of manufacture.
 No other warranty is expressed or implied, and the liability of the Company under all circumstances is expressly limited to repair or replacement of the defective unit.
 No representative or other person is authorized by the Company to assume for it any other obligation or liability in connection with the sale of any goods manufactured by it.
7. Any variation in cost due to departure from the design or specification as quoted, will be to your account. Any request for such changes will not be considered firm unless in writing.
8. We reserve the right to change the design, withdraw and alter prices and/or specifications of any articles in catalogues without notice or liability. Improvement in design from time to time may slightly alter the present illustration and/or description.



SPECIAL ORDER

1. From our files which contain thousands of individual designs of transformers and chokes for units weighing 1 oz. up to 5 cwt. and embracing the whole field of frequencies from 0.5 c/s to 1,000,000 c/s we have selected the most generally used types for our standards. These types are manufactured in large quantities and production costs are therefore kept to a minimum. If, however, a standard type does not meet requirements, either electrically or physically, we are willing to co-operate fully in supplying a special unit.
2. If a "special" is unavoidable, there would be no increase in price compared with the nearest catalogue type providing the order allows a normal manufacturing quantity. In cases where this is not so, a surcharge would be applied.
3. When ordering a special component, full details of the usage should be given to enable us to design and supply the most suitable, economical units. If a special circuit is used, it would be helpful to enclose a copy of the circuit concerning the component with the order. Physical details covering maximum dimensions, preferred type of case and method of termination, whether panel or leads, should also be given. In the case of Power, Audio and Instrument transformers when D.C. isolation is not necessary between Primary and Secondary, and the winding ratios are comparatively low, consideration should be given to the use of an "Auto" type with the consequent saving in size and cost.
4. **REMEMBER THAT YOU CANNOT GIVE US TOO MUCH INFORMATION.**
5. Details needed for the accurate design of "Specials" are as follows:

POWER TRANSFORMERS

Normal range of manufacture up to 10 kVA Single Phase and
20 kVA Three Phase.

- A. Primary voltages and frequencies.
- B. Between which windings, if any, electrostatic shields are required.
- C. High tension secondary voltage under loaded conditions and if special requirements of regulation apply, these should be stated. An indication of loading with filter details should be given to allow power factor considerations (e.g. capacitor or choke input filter type of rectifier circuit).
- D. Each filament voltage and current should be given, and the working voltage of that particular filament winding with respect to earth and other winding.
- E. Application of Transformer. Since some types of extra-low voltage transformers are subject to the approval of Electric Supply Authorities, the application should be stated at the time of ordering.

AUDIO TRANSFORMERS

Normal range of manufacture up to 5 kW

- A. Impedance ratios required.
- B. Exact frequency range required and variation therein.
- C. Maximum operating level. If in db specify reference level.
- D. Details of valves or transistors preceding and following the transformer, or alternatively, source and load impedances.
- E. Primary inductance and leakage inductance, if critical.
- F. Details of unbalanced D.C. in any of the windings.
- G. Maximum acceptable insertion loss.
- H. Where more than one load is applied simultaneously the exact power required in each load.

INDUCTORS

- A. Inductance, or impedance at specified frequency and A.C. voltage.
- B. D.C. present in winding and working voltage to earth.
- C. Accuracy required.
- D. Minimum "Q" of component where critical.

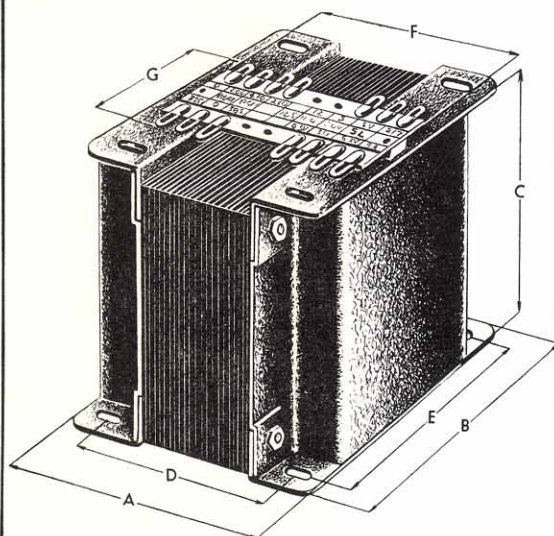
INSTRUMENT TRANSFORMERS

- A. Ratio/s, instrument burden and current or voltage.
- B. Preferred lead arrangements and mounting.
- C. Maximum ratio error and phase angle difference or preferably specify to relevant Standard Specification.
- D. Working voltage between windings.

ILLUSTRATIONS and PHYSICAL DETAILS



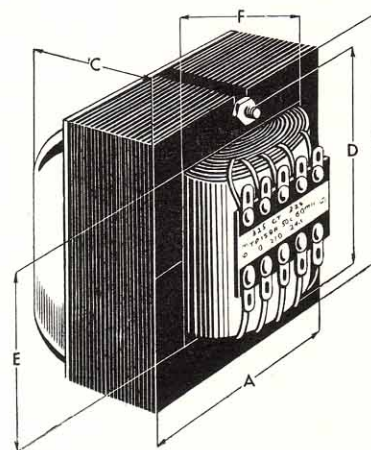
"V.B.A." MOUNTING (Reversible Mounting)



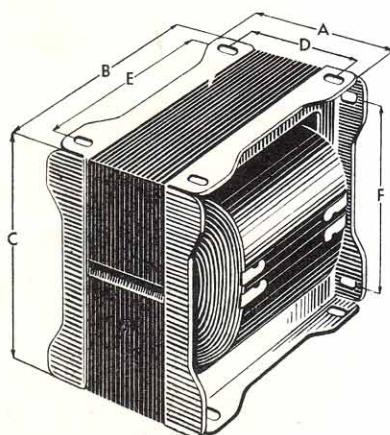
Lam.	Stack.	A	B	C	D	E	F	G	Wt.
EI-12	1 in.	3 $\frac{1}{4}$ in.	4 $\frac{1}{2}$ in.	4 $\frac{1}{8}$ in.	2 $\frac{1}{8}$ in.	3 $\frac{3}{4}$ in.	2 $\frac{3}{4}$ in.	2 $\frac{1}{2}$ in.	6 lb.
"	1 $\frac{1}{4}$ in.	3 $\frac{1}{2}$ in.	"	"	2 $\frac{3}{8}$ in.	"	3 $\frac{1}{2}$ in.	"	7 lb.
"	1 $\frac{1}{2}$ in.	3 $\frac{3}{4}$ in.	"	"	2 $\frac{5}{8}$ in.	"	3 $\frac{3}{4}$ in.	"	8 lb.
"	2 in.	4 $\frac{1}{4}$ in.	"	"	3 $\frac{1}{8}$ in.	"	3 $\frac{5}{8}$ in.	"	10 lb.
"	2 $\frac{1}{2}$ in.	4 $\frac{3}{4}$ in.	"	"	3 $\frac{3}{8}$ in.	"	4 $\frac{1}{2}$ in.	"	12 lb.
"	3 in.	5 $\frac{1}{4}$ in.	"	"	4 $\frac{1}{8}$ in.	"	4 $\frac{3}{8}$ in.	"	13 $\frac{1}{2}$ lb.
EI-16	2 in.	4 $\frac{3}{4}$ in.	5 in.	6 $\frac{1}{8}$ in.	4 in.	4 $\frac{1}{4}$ in.	4 $\frac{1}{2}$ in.	3 in.	16 $\frac{1}{2}$ lb.
"	3 in.	5 $\frac{3}{4}$ in.	"	"	5 in.	"	5 $\frac{1}{4}$ in.	"	24 $\frac{1}{2}$ lb.
"	4 in.	6 $\frac{3}{4}$ in.	"	"	6 in.	"	6 $\frac{1}{4}$ in.	"	32 $\frac{1}{2}$ lb.
EI-18	2 in.	5 $\frac{1}{4}$ in.	5 $\frac{3}{8}$ in.	6 $\frac{3}{8}$ in.	4 $\frac{1}{8}$ in.	5 in.	5 in.	3 in.	
"	3 in.	6 $\frac{1}{4}$ in.	"	"	5 $\frac{1}{8}$ in.	"	6 in.	"	
"	4 in.	7 $\frac{1}{4}$ in.	"	"	6 $\frac{1}{8}$ in.	"	7 in.	"	
"	5 in.	8 $\frac{1}{4}$ in.	"	"	7 $\frac{1}{8}$ in.	"	8 in.	"	

"H." MOUNTING (Horizontal Mounting)

Lam.	Stack	A	B	C	D	E	F	Wt.
EI-8	$\frac{3}{4}$ in.	3 in.	2 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	2 $\frac{1}{8}$ in.	1 $\frac{1}{8}$ in.	2 $\frac{1}{16}$ in.	2 lb.
"	1 in.	"	"	1 $\frac{3}{4}$ in.	"	"	"	2 $\frac{1}{4}$ lb.
"	1 $\frac{1}{4}$ in.	"	"	2 in.	"	"	"	2 $\frac{1}{2}$ lb.
"	1 $\frac{1}{2}$ in.	"	"	2 $\frac{1}{4}$ in.	"	"	"	2 $\frac{3}{4}$ lb.
"	2 in.	"	"	2 $\frac{3}{4}$ in.	"	"	"	3 lb.
EIS-8	$\frac{3}{4}$ in.	3 $\frac{3}{8}$ in.	3 $\frac{1}{8}$ in.	1 $\frac{1}{8}$ in.	2 $\frac{3}{4}$ in.	2 $\frac{3}{16}$ in.	2 $\frac{7}{16}$ in.	2 $\frac{3}{4}$ lb.
"	1 in.	"	"	1 $\frac{7}{8}$ in.	"	"	"	3 $\frac{1}{4}$ lb.
"	1 $\frac{1}{4}$ in.	"	"	2 $\frac{1}{8}$ in.	"	"	"	3 $\frac{3}{4}$ lb.
"	1 $\frac{1}{2}$ in.	"	"	2 $\frac{3}{8}$ in.	"	"	"	4 $\frac{1}{4}$ lb.
"	2 in.	"	"	2 $\frac{5}{8}$ in.	"	"	"	5 $\frac{1}{4}$ lb.



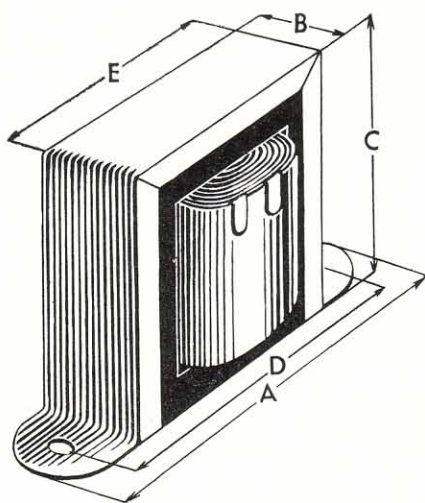
"O.C." MOUNTING (Open Clamp Mounting)



Lam.	Stack	A	B	C	D	E	F	Wt.
EI-8	$\frac{3}{4}$ in.	1 $\frac{1}{4}$ in.	2 $\frac{5}{8}$ in.	3 $\frac{1}{8}$ in.	1 $\frac{3}{8}$ in.	1 $\frac{15}{16}$ in.	2 $\frac{5}{8}$ in.	2 lb.
"	1 in.	2 $\frac{1}{8}$ in.	"	"	1 $\frac{1}{2}$ in.	"	"	2 $\frac{1}{4}$ lb.
"	1 $\frac{1}{4}$ in.	2 $\frac{3}{8}$ in.	"	"	1 $\frac{3}{4}$ in.	"	"	2 $\frac{3}{8}$ lb.
"	1 $\frac{1}{2}$ in.	2 $\frac{5}{8}$ in.	"	"	2 $\frac{1}{8}$ in.	"	"	2 $\frac{3}{4}$ lb.
"	2 in.	3 $\frac{1}{8}$ in.	"	"	2 $\frac{3}{8}$ in.	"	"	3 $\frac{1}{4}$ lb.
EIS-8	$\frac{3}{4}$ in.	2 $\frac{1}{8}$ in.	3 $\frac{3}{16}$ in.	3 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	2 $\frac{7}{16}$ in.	2 $\frac{3}{4}$ in.	2 $\frac{3}{4}$ lb.
"	1 in.	2 $\frac{3}{8}$ in.	"	"	1 $\frac{3}{4}$ in.	"	"	3 $\frac{1}{4}$ lb.
"	1 $\frac{1}{4}$ in.	2 $\frac{5}{8}$ in.	"	"	2 in.	"	"	3 $\frac{3}{4}$ lb.
"	1 $\frac{1}{2}$ in.	2 $\frac{3}{4}$ in.	"	"	2 $\frac{1}{4}$ in.	"	"	4 $\frac{1}{4}$ lb.
"	2 in.	3 $\frac{3}{8}$ in.	"	"	2 $\frac{3}{4}$ in.	"	"	5 lb.
EI-12	1 in.	2 $\frac{1}{2}$ in.	3 $\frac{3}{8}$ in.	4 $\frac{1}{8}$ in.	1 $\frac{1}{8}$ in.	2 $\frac{1}{4}$ in.	2 $\frac{1}{4}$ in.	6 lb.
"	1 $\frac{1}{2}$ in.	2 $\frac{5}{8}$ in.	"	"	2 $\frac{1}{4}$ in.	"	"	8 lb.
"	2 in.	3 $\frac{1}{4}$ in.	"	"	2 $\frac{3}{8}$ in.	"	"	10 lb.
"	2 $\frac{1}{2}$ in.	3 $\frac{5}{8}$ in.	"	"	3 $\frac{1}{8}$ in.	"	"	12 lb.
"	3 in.	4 $\frac{1}{8}$ in.	"	"	3 $\frac{3}{8}$ in.	"	"	14 $\frac{1}{2}$ lb.



ILLUSTRATIONS and PHYSICAL DETAILS

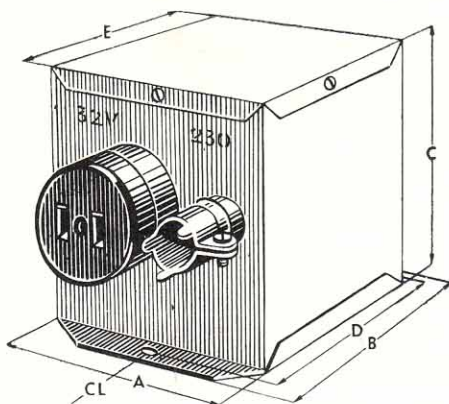
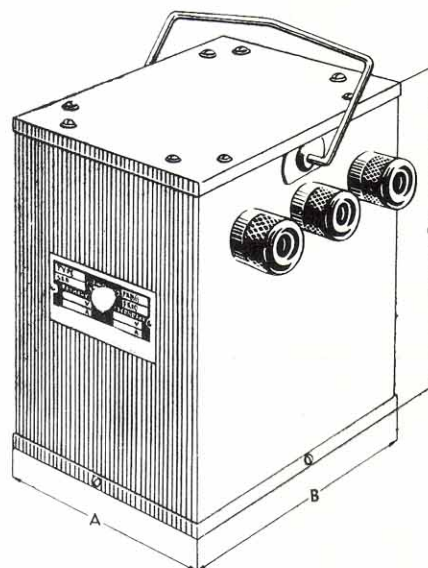


"S.C." (Strap Clamp Mounting)

Lam.	Stack	A	B	C	D	E	F	Wt.
EI-5	$\frac{5}{8}$ in.	3 in.	$\frac{3}{4}$ in.	$1\frac{3}{4}$ in.	$2\frac{1}{2}$ in.	2 in.	$1\frac{3}{8}$ in.	$\frac{1}{2}$ lb.
EI-6	$\frac{3}{4}$ in.	$3\frac{1}{2}$ in.	$\frac{7}{8}$ in.	2 in.	$2\frac{7}{8}$ in.	$2\frac{3}{8}$ in.	$1\frac{1}{4}$ in.	1 lb.
"	1 in.	"	$1\frac{1}{8}$ in.	"	"	"	2 in.	$1\frac{1}{4}$ lb.
EI-7	$\frac{7}{8}$ in.	$3\frac{7}{8}$ in.	1 in.	$2\frac{1}{4}$ in.	$3\frac{3}{8}$ in.	$2\frac{3}{4}$ in.	$1\frac{7}{8}$ in.	$1\frac{1}{8}$ lb.
"	$1\frac{3}{32}$ in.	"	$1\frac{1}{16}$ in.	"	"	"	$2\frac{1}{8}$ in.	$1\frac{1}{4}$ lb.

"M 122" CASE

Portable. Waterproof construction.
One, two or three waterproof gland nuts as outlets.
Dimensions $5\frac{1}{8}$ in. x $6\frac{1}{4}$ in. x $7\frac{1}{4}$ in. H.



"M 717" COVERS

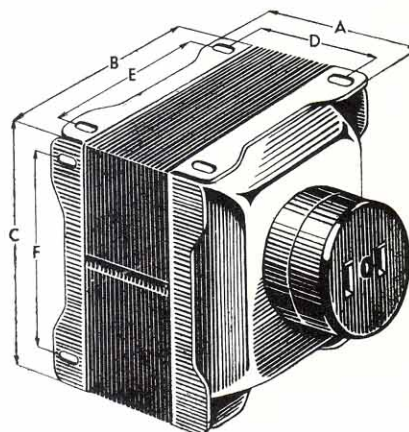
For major dimensions refer to "OC"
mounting for EIS-8 or EI-12 Lamination.



"M 381" CASE

EIS-8 Lamination $5\frac{1}{8}$ in. x $3\frac{1}{4}$ in. x $3\frac{3}{8}$ in. H.
EI-12 Lamination $6\frac{1}{8}$ in. x $4\frac{7}{8}$ in. x $6\frac{1}{8}$ in. H.

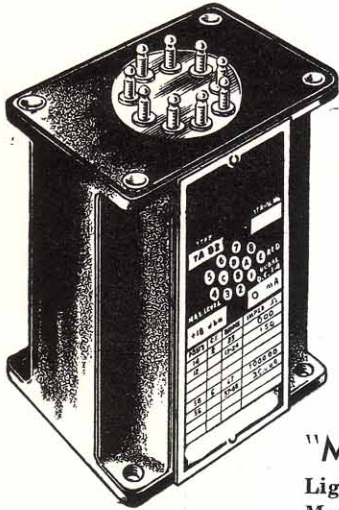
Either type can be fitted with socket, grommets or
conduit entries.



ILLUSTRATIONS and PHYSICAL DETAILS



STANDARD CASES FOR AUDIO AND CARRIER TRANSFORMERS



"M 66" CASE

Reversible mounting, die-cast in high conductivity non-ferrous metal.

Base, $2\frac{3}{4}$ in. x $2\frac{1}{8}$ in. Mounting, $2\frac{1}{4}$ in. x $1\frac{5}{8}$ in.
Overall Height, $3\frac{1}{2}$ in.

"M 91" CASE

Light steel case. Base, $2\frac{1}{2}$ in. x $1\frac{13}{16}$ in.
Mounting, $1\frac{15}{16}$ in. x $1\frac{1}{4}$ in. Overall Height, $3\frac{1}{4}$ in.

"M 214" CASE

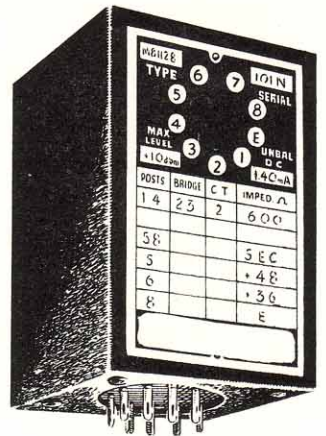
Hermetically sealed, details as for "M 91".

"M 143" CASE

Light steel case. Base, 2 in. x $1\frac{5}{8}$ in. Mounting
 $1\frac{1}{2}$ in. x $1\frac{1}{8}$ in. Overall Height, $3\frac{1}{4}$ in.

"M 215" CASE

Hermetically sealed, details as for "M143".



"M 17" CASE

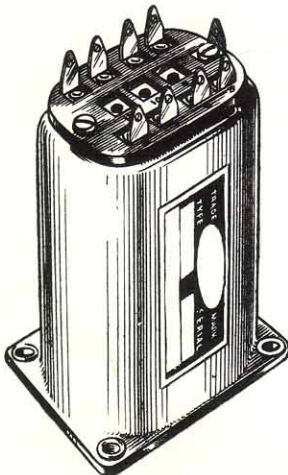
Drawn-steel case.

Base, $4\frac{1}{4}$ in. x $2\frac{5}{8}$ in. Mounting, $3\frac{3}{16}$ x $2\frac{3}{16}$.
Overall Height, $4\frac{5}{8}$ in.

"M 8" CASE

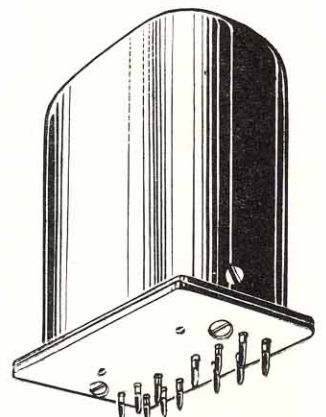
Drawn-steel case.

Base, $2\frac{9}{16}$ x $1\frac{15}{16}$ in. Mounting, $2\frac{1}{4}$ in. x $1\frac{1}{8}$ in.
Overall Height, $3\frac{5}{8}$ in.



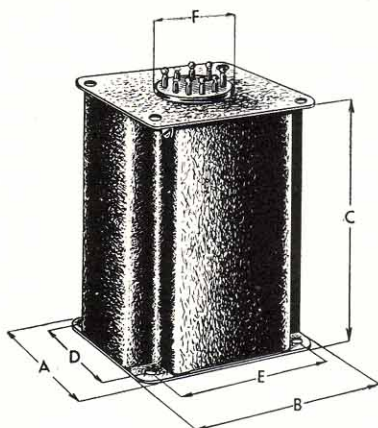
"M 455" CASE

Modified "M8" case with panel to suit
Relay Set mounting P.M.G. drwg. CE534.





ILLUSTRATIONS and PHYSICAL DETAILS



"M 53" CASE

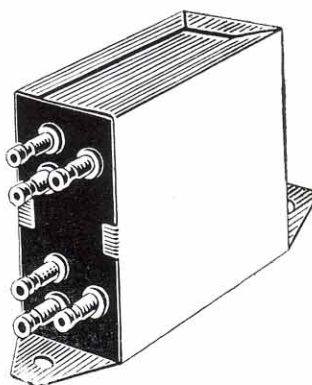
(Reversible Steel Mounting)

Type	Lam.	A	B	C	D	E	F	Wt.
M53-1	EI-8 etc.	2 $\frac{7}{8}$ in.	3 in.	3 $\frac{5}{8}$ in.	2 $\frac{5}{16}$ in.	2 $\frac{7}{16}$ in.	1 $\frac{1}{2}$ in.	3 $\frac{1}{2}$ lb.
M53-2	EIS-8	3 in.	3 $\frac{7}{16}$ in.	4 $\frac{1}{8}$ in.	2 $\frac{7}{16}$ in.	2 $\frac{5}{8}$ in.	„	4 $\frac{1}{2}$ lb.
M53-3	„	3 $\frac{7}{16}$ in.	3 $\frac{3}{4}$ in.	4 $\frac{1}{8}$ in.	2 $\frac{5}{8}$ in.	3 $\frac{3}{16}$ in.	„	5 lb.
M53-4	L-6 etc.	3 in.	3 $\frac{7}{16}$ in.	5 $\frac{1}{8}$ in.	2 $\frac{7}{16}$ in.	2 $\frac{5}{8}$ in.	„	4 $\frac{1}{2}$ lb.

"M 294" CASE

Body size $\frac{15}{16}$ in. x $2\frac{1}{4}$ in. x $1\frac{1}{4}$ in.

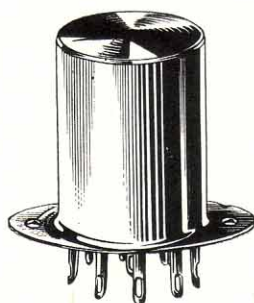
Mounting centres $2\frac{11}{16}$ in.



"M 511" CASE

Body size $1\frac{5}{32}$ in. x $2\frac{1}{4}$ in. x $1\frac{1}{4}$ in.

Mounting centres $2\frac{11}{16}$ in.



"M 257" CASE

(Hermetically sealed)

Diameter 1 in. Height $1\frac{1}{4}$ in. + lugs

Mounting centres $1\frac{5}{16}$ in.



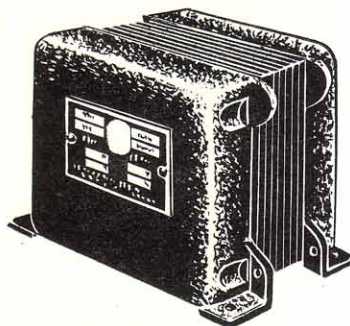
"M 508" CASE

Single Hole-mounting Mu-Metal case.
For Microphone or Pickup transformers

Diam. $1\frac{1}{4}$ in. Height $1\frac{1}{4}$ in. above chassis.



ILLUSTRATIONS and PHYSICAL DETAILS



CAST IRON COVER

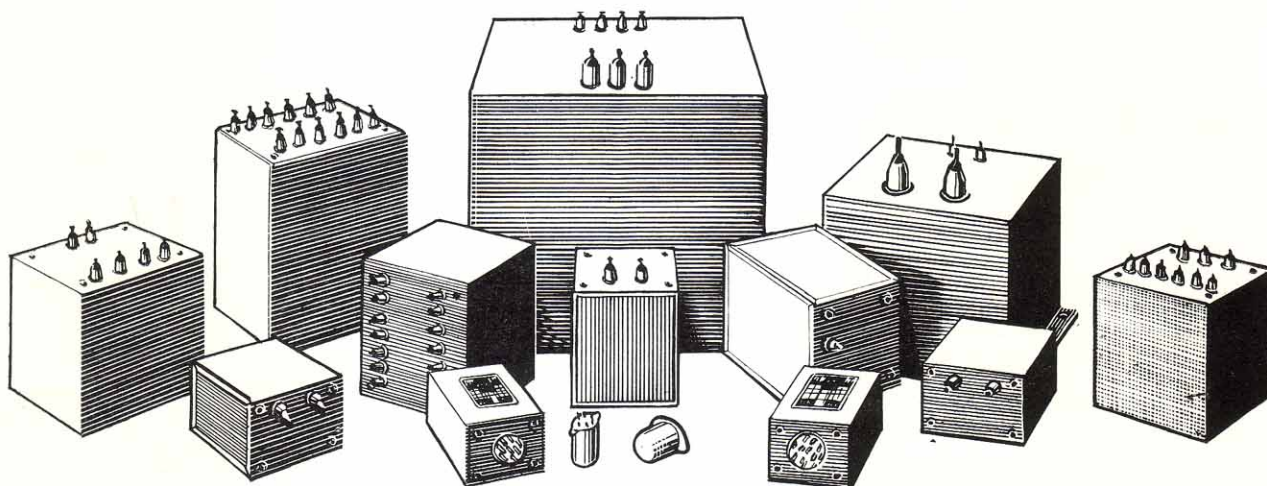
DIMENSIONS

- A. — Overall Across Stack
 B. — Overall Length
 C. — Height
 D. & E. — Mounting Dimensions
 F. & G. — Panel Opening

Lam.	Stack	A	B	C	D	E	F	G
BUT-1	2 in.	6 in.	8½ in.	7¼ in.	5¼ in.	7 ¹¹ / ₁₆ in.	4 in.	2½ in.
BUT-1	2½ in.	6½ in.	8½ in.	7¼ in.	5¾ in.	7 ¹¹ / ₁₆ in.	4 in.	2½ in.
BUT-1	3 in.	7 in.	8½ in.	7¼ in.	6¼ in.	7 ¹¹ / ₁₆ in.	4 in.	2½ in.
BUT-1	4 in.	8 in.	8½ in.	7¼ in.	7¼ in.	7 ¹¹ / ₁₆ in.	4 in.	2½ in.
BUT-2	2 in.	7½ in.	10 ¹ / ₁₆ in.	8¾ in.	6¼ in.	9 in.	4¾ in.	3½ in.
BUT-2	3 in.	8½ in.	10 ¹ / ₁₆ in.	8¾ in.	7¼ in.	9 in.	4¾ in.	3½ in.
BUT-2	4 in.	9½ in.	10 ¹ / ₁₆ in.	8¾ in.	8¼ in.	9 in.	4¾ in.	3½ in.
BUT-2	5 in.	10½ in.	10 ¹ / ₁₆ in.	8¾ in.	9¼ in.	9 in.	4¾ in.	3½ in.

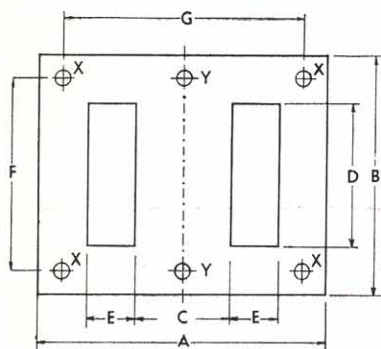
HERMETICALLY SEALED TRANSFORMERS

For use in high humidity and special conditions, sealing in this manner gives complete reliability. For dimensions of standard cases refer to pages 9 and 10.





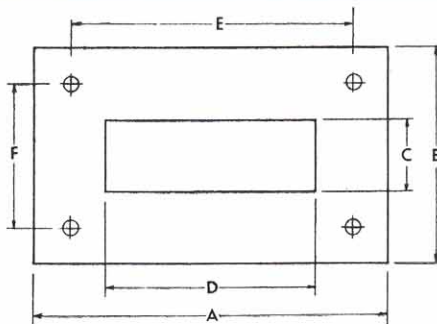
ILLUSTRATIONS and PHYSICAL DETAILS



SHELL TYPE LAMINATIONS

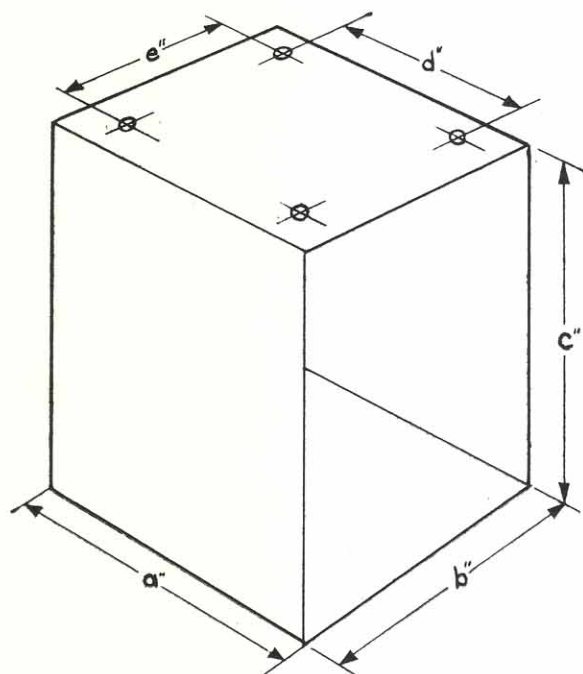
	A	B	C	D	E	F	G	Holes
EIS-2	1.0 in.	.75 in.	.23 in.	.5 in.	.26 in.			None
EI-4	1.5 in.	1.25 in.	.5 in.	.75 in.	.25 in.			None
EI- $\frac{9}{16}$	1.687 in.	1.407 in.	.562 in.	.843 in.	.281 in.			None
EI-5	1.875 in.	1.562 in.	.625 in.	.937 in.	.312 in.			None
EI-6	2.25 in.	1.875 in.	.75 in.	1.125 in.	.375 in.			None
EI-7	2.625 in.	2.188 in.	.875 in.	1.31 in.	.437 in.			None
EI-8	3.0 in.	2.5 in.	1 in.	1.5 in.	.5 in.	2.125 in.		Y.218 in. slot
EIS-8	3.375 in.	3.063 in.	1 in.	2.063 in.	.687 in.	2.687 in.		" " "
EI-9	3.375 in.	2.813 in.	1.125 in.	1.687 in.	.562 in.	2.25 in.	2.813 in.	.218 in.
EI-12	4.5 in.	3.75 in.	1.5 in.	2.25 in.	.75 in.	3 in.	3.75 in.	X.218 in. D
EI-16	6 in.	5 in.	2 in.	3 in.	1 in.	4 in.	5 in.	X.22 in. D
EI-18	6.75 in.	5.63 in.	2.25 in.	3.375 in.	1.125 in.	5.625 in.	4.5 in.	X.31 in. D
BUT-1	7 in.	7 in.	2 in.	5 in.	1.5 in.			None
BUT-2	8.5 in.	8.5 in.	2.5 in.	6 in.	1.75 in.			None
BUT-5	10.5 in.	11.75 in.	3.5 in.	8.25 in.	1.75 in.			None

CORE TYPE LAMINATIONS

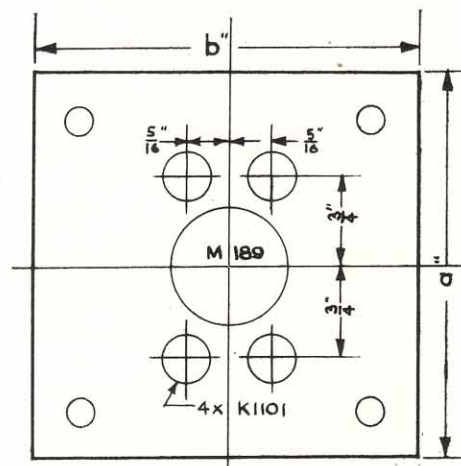


Type	A	B	C	D	E	F	Holes
L-3	1.875 in.	1.125 in.	.375 in.	1.125 in.			None
L-4	2.5 in.	1.5 in.	.5 in.	1.5 in.	2 in.	1 in.	.14 in. D
L-6	3.75 in.	2.25 in.	.75 in.	2.25 in.	3 in.	1.5 in.	.22 in. D
LS-6	3.75 in.	2.75 in.	1.25 in.	2.25 in.	3 in.	2 in.	.22 in. D
U-8	5 in.	3 in.	1 in.	3 in.	4 in.	2 in.	.22 in. D

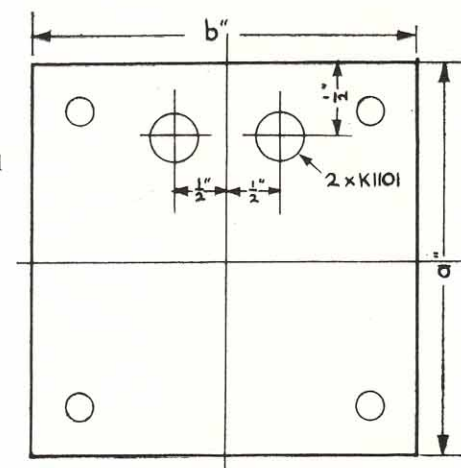
ILLUSTRATIONS and PHYSICAL DETAILS



Standard Terminal
Arrangement
Transformer



Standard Terminal
Arrangement
Choke

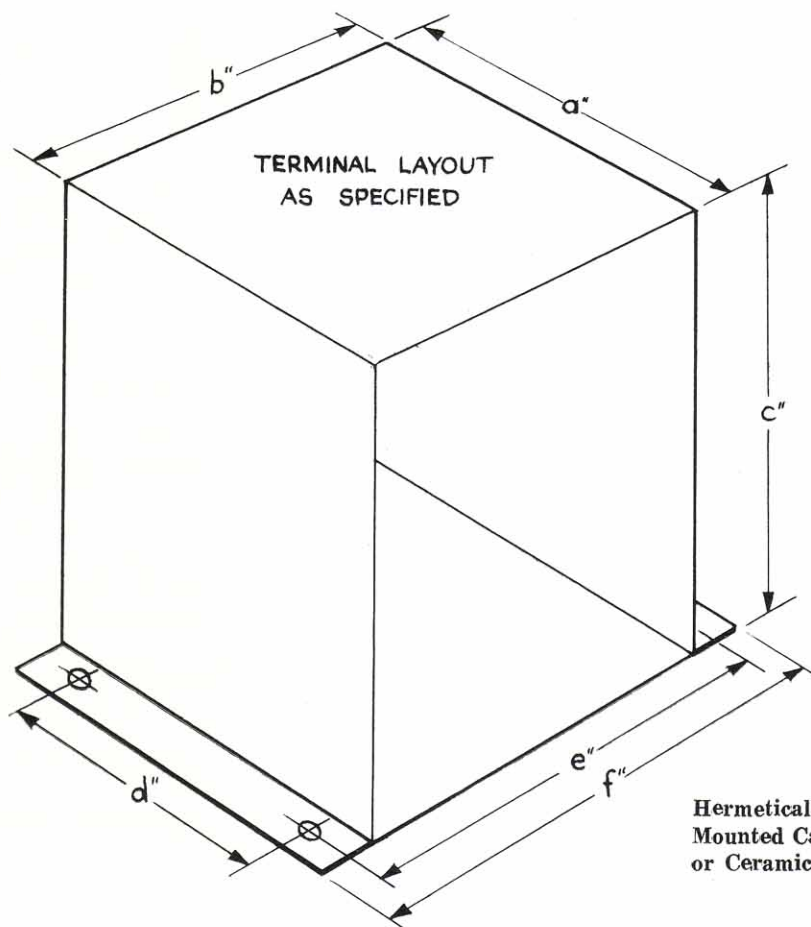


Hermetically Sealed, Insert Mounted
Cases. Glass or Ceramic Seals.

Type	Lam. Size	Max. Stack	A	B	C	D	E	Materials	Inserts
A	EI-8	1 1/4 in.	2 1/2 in.	2 3/4 in.	3 3/4 in.	1 3/4 in.	2 in.	Tinplate	5/32 in. W
B	EI-8	2 in.	3 1/4 in.	2 3/4 in.	3 3/4 in.	2 1/2 in.	2 in.	Tinplate	5/32 in. W
C	EIS-8	1 1/4 in.	2 3/4 in.	3 1/4 in.	4 1/4 in.	2 in.	2 1/2 in.	Tinplate	5/32 in. W
D	EIS-8	2 in.	3 3/4 in.	3 1/4 in.	4 1/4 in.	3 in.	2 1/2 in.	Tinplate	5/32 in. W
E	EI-12	1 1/2 in.	3 1/2 in.	4 in.	5 1/4 in.	2 1/2 in.	3 in.	Terne 22G	5/32 in. W
F	EI-12	2 in.	4 in.	4 in.	5 1/4 in.	3 in.	3 in.	Terne 22G	5/32 in. W
G	EI-12	3 in.	5 1/4 in.	4 in.	5 1/4 in.	4 1/4 in.	3 in.	Terne 22G	5/32 in. W



ILLUSTRATIONS and PHYSICAL DETAILS



Hermetically Sealed, Flange Mounted Cases. Glass or Ceramic Seals.

Type	Lam. Size	Max. Stack	A	B	C	D	E	F	Holes	Case Material	Base Material
K	EI-16	2½ in.	5½ in.	5½ in.	7½ in.	3¼ in.	6¼ in.	7 in.	¹⁷ / ₆₄ in.	20g MS	18g MS
L	EI-16	4 in.	7 in.	5½ in.	7½ in.	5 in.	6¼ in.	7 in.	¹⁷ / ₆₄ in.	20g MS	18g MS
M	BUT-1	3½ in.	7½ in.	8¾ in.	7½ in.	5½ in.	9½ in.	10¼ in.	¹⁷ / ₆₄ in.	18g MS	16g MS
N	BUT-1	5 in.	9½ in.	8¾ in.	8½ in.	7½ in.	9½ in.	10¼ in.	¹⁷ / ₆₄ in.	18g MS	16g MS
P	BUT-2	3½ in.	8½ in.	10¼ in.	10 in.	6½ in.	11 in.	11¾ in.	¹⁷ / ₆₄ in.	18g MS	16g MS
Q	BUT-2	5 in.	10 in.	10¼ in.	10 in.	8 in.	11 in.	11¾ in.	¹¹ / ₃₂ in.	18g MS	16g MS
R	BUT-5	4 in.	9 in.	13½ in.	13 in.	7 in.	15 in.	16½ in.	¹³ / ₃₂ in.	16g MS	16g MS
S	BUT-5	6 in.	11 in.	13½ in.	13 in.	9 in.	15 in.	16½ in.	¹³ / ₃₂ in.	16g MS	16g MS
T	BUT-6	3½ in.	9 in.	9¾ in.	8 in.	7 in.	10¾ in.	11¾ in.	¹³ / ₃₂ in.	18g MS	16g MS
U	BUT-6	5 in.	11 in.	9¾ in.	8 in.	9 in.	10¾ in.	11¾ in.	¹³ / ₃₂ in.	18g MS	16g MS

TRIMAX

Radio and Amplifier Types for 50-100 c/s operation



1. In general, the types listed have been designed for a capacitor input filter. If a choke filter is used the H.T. current may be increased by approximately 25%.
2. ★ Indicates that the design is for a choke input filter.
3. Ratings are based on a maximum ambient temperature of 40°C. If used with a higher ambient, the loading must be reduced.
4. 240V HAS BEEN ADOPTED AS THE STANDARD SUPPLY VOLTAGE IN MOST AREAS OF AUSTRALIA, AND ALL CATALOGUE TYPE TRANSFORMERS ARE DESIGNED FOR THIS VOLTAGE. Additional primary taps can, if required, be supplied at an extra cost. In such cases it is suggested that a similar tapping arrangement to that used with "Trimax" Tap-changing Fuse Holder be used, as this gives 10V variations from 200-250V with the minimum number of taps.
5. For physical details refer to the dimension sheets.
6. Numbers underlined indicate standard transformers normally carried in stock.

Catalogue No.	Replaces Type	Secondaries				Mounting Lamination and Stack
		High Tension Volts A.C.	M.A. D.C.	Filaments		
				5v	6.8v	
TP-4300		150/150	15		1a	SC-EI-6 $\frac{3}{4}$ "
<u>TP-2502</u>		150/150	30		2a	SC-EI-7 $\frac{7}{8}$ "
TP-4301	TP-1788	150/150	40		2a	H-EI-8 1"
<u>TP-4302</u>		240/240	40		1.5a, 1.5a	H-EI-8 $1\frac{1}{4}$ "
TP-4303	TP-2240	285/285	40		2a	H-EI-8 $1\frac{1}{4}$ "
<u>TP-4304</u>	TP-2241	265/265	50		2.5a	H-EI-8 $1\frac{1}{4}$ "
TP-4305	TP-1886	385/385	60	2a	2a	H-EIS-8 $1\frac{1}{4}$ "
<u>TP-4306</u>	TP-1623	265/265	70		2a, 2a	H-EIS-8 $1\frac{1}{4}$ "
<u>TP-4307</u>		310/310	70		2a, 2a	H-EIS-8 $1\frac{1}{4}$ "
<u>TP-4308</u>	TP-2242	285/285	80	2a	2a	H-EIS-8 $1\frac{1}{4}$ "
TP-4309	TP-2488	285/285	80	2a	2a, 2a	H-EIS-8 $1\frac{1}{2}$ "
TP-4310	TP-2489	325/325	80	2a	2a, 2a	H-EIS-8 $1\frac{1}{2}$ "
TP-4311	TP-2490	385/385	80	2a	1.5a, 1.5a	H-EIS-8 $1\frac{1}{2}$ "
<u>TP-4312</u>	TP-2377	285/285	100	2a	1.5a, 1.5a	H-EIS-8 $1\frac{1}{2}$ "
TP-4313	TP-2491	325/325	100	2a	2a, 2a	VBA-EI-12 1"
TP-4314	TP-2243	385/385	100	2a	2a, 2a	VBA-EI-12 1"
TP-4315		410/410	100	3a	3a, 3a	VBA-EI-12 $1\frac{1}{2}$ "
TP-4316		285/285	125	3a	4a, 4a, ct	VBA-EI-12 $1\frac{1}{2}$ "
<u>TP-4317</u>	TP-2244	300/300	125	2a	2a, 2a	VBA-EI-12 1"
TP-4318	TP-2245	385/385	125	2a	2a, 2a	VBA-EI-12 $1\frac{1}{4}$ "
<u>TP-4319</u>	TP-2246	325/325	150	2a	2a, 2a	VBA-EI-12 $1\frac{1}{4}$ "
TP-4320	TP-2247	385/385	150	2a	2a, 2a	VBA-EI-12 $1\frac{1}{2}$ "
TP-4321	TP-2249	310/310	175	2a	2a, 2a	VBA-EI-12 $1\frac{1}{2}$ "
TP-4322	TP-2256	400/400	175	3a	3a, 3a	VBA-EI-12 2"



TRIMAX

Radio and Amplifier Types

Catalogue No.	Replaces Type	Secondaries				Mounting Lamination and Stack
		High Tension Volts A.C.	M.A. D.C.	Filaments		
				5v	6.3v	
TP-2077	TP-1904A	425/425 tapped	175	3a	3a, 3a	VBA-EI-12 3"
		325/325	25				For Williamson Amplifier
TP-4323		700/700	175	3a	VBA-EI-12 3"	
TP-2420		150/140/130/130/140/150	200		OC-EIS-8 1½"	
TP-4324		325/325	200	3a	3a, 3a	VBA-EI-12 2"
TP-4325	TP-1901	400/400	200	3a	3a, 3a	VBA-EI-12 2½"
TP-4326	TP-1902A	500/500	200	3a	3a, 3a	VBA-EI-12 3"
TP-4327	TP-1905A	400/400	250	3a	3a, 3a	VBA-EI-12 3"
TP-4328	TP-2435	450/450	250	3a	3a, 3a	VBA-EI-12 3"
TP-4329		600/500/500/600	250★			VBA-EI-12 3"
TP-4330		565/565	250★	3a	3a, 3a	VBA-EI-12 3"
TP-4331	TP-2258	565/565	250	4a	4a, 4a	VBA-EI-16 2"
TP-4332	TP-1913	1050/1050 or 750/750	250★ 300★			VBA-EI-16 3"
TP-4333		350/350	400	4a	4a, 4a, 2a	VBA-EI-16 2"
TP-4334		440/440	400★	4a	4a, 4a	VBA-EI-16 2"
TP-4335		650/650	400★			VBA-EI-16 2½"
TP-4336	TP-2857	1500/1500	400★			BUT-I 2"

VOLTAGE DOUBLER TRANSFORMERS

TP-3980		115, 125	100		2.5a	OC-EIS-8 1"
TP-3981		115, 125	150		3a	OC-EIS-8 1½"
TP-4407		115, 130	160		3a, 2.5a ct	VBA-EI-12 1"
TP-3982		115, 125	250		4a, 4a ct	VBA-EI-12 1½"

SILICON DIODE BRIDGE TRANSFORMER

For use with diodes having a P.I.V. rating not less than 400V

TP-4337		240	200		3a, 3a	VBA-EI-12 1½"
TP-4338		240	300		4a, 4a	VBA-EI-12 2"

TAPE RECORDER TRANSFORMER

This type has an Eddy Current Shield to reduce the external field

TP-2171B		270/270	60		3a	H-EIS-8 1½"
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TRIMAX

Filament Types for 50-100 c/s operation



1. Ratings are based on a maximum ambient temperature of 40°C. If used with a higher ambient, the loading must be reduced.
2. 240V HAS BEEN ADOPTED AS THE STANDARD SUPPLY VOLTAGE IN MOST AREAS OF AUSTRALIA AND ALL CATALOGUE TYPE TRANSFORMERS ARE DESIGNED FOR THIS VOLTAGE. On most types additional primary taps can, if required, be supplied at an extra cost. In such cases it is suggested that a similar tapping arrangement to that used with the "Trimax" Tap-changing Fuse Holder be used, as this gives 10V variations from 200-250V with the minimum number of taps.
3. For physical details refer to the dimension sheets.
4. Numbers underlined indicate standard transformers normally carried in stock.

Catalogue No.	Replaces Type	Secondary Volts				KV Test	Mounting Lamination and Stack
		2.5	5	6.3	10		
<u>TP-4339</u>	TP-862			2a		1	SC-EI-6 $\frac{3}{4}$ "
TP-4340	TP-2653		3a			1.5	SC-EI-6 1"
<u>TP-4341</u>	TP-2334			3a		1	SC-EI-6 1"
TP-4342	TP-2655			5a		1.5	H-EI-8 1"
TP-4343	TP-2654		6a			1.5	H-EI-8 1"
<u>TP-4344</u>	TP-1684A			3a, 3a		1	H-EI-8 $1\frac{1}{4}$ "
TP-4345	TP-2856A	10a ct				5	OC-EIS-8 1"
<u>TP-4346</u>	TP-2497		3a	3a, 3a,		3	H-EIS-8 $1\frac{1}{4}$ "
TP-4347	TP-2596			6a, 4a		1.5	H-EIS-8 $1\frac{1}{4}$ "
TP-4348	TP-2742				6.5a ct	1.5	OC-EIS-8 $1\frac{1}{4}$ "
<u>TP-4349</u>	TP-1550B		3a	3a, 3a, 3a, 3a ct		1	VBA-EI-12 1"
TP-4350	TP-2643		3a, 3a,	3a, 3a, 3a		1.5	VBA-EI-12 1"
TP-4351	TP-2515			10a, 10a		2	VBA-EI-12 $1\frac{1}{2}$ "
TP-4352	TP-3329A		15a ct			9	M336-EI-12 $1\frac{1}{4}$ "

Low Voltage Adjustable Power Supply

<u>TP-4353</u>	Prim: 240V	Secondaries: 1V, 2V, 4V, 4V, 10V, 10V (Six separate windings with marked polarity.) All 1.8a.	OC-EIS-8 $1\frac{1}{4}$ "
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TRIMAX

FILTER CHOKES

1. The inductance figures given are for rated direct current, and used under conditions equivalent to a capacitor input filter. For choke input filters which have a higher ripple voltage, the inductance would increase by approximately 10%.
2. These chokes may be operated safely at the maximum D.C. current shown but the inductance will decrease by approximately 25%.
3. Numbers underlined indicate standard chokes normally carried in stock.

Catalogue No.	D.C. MA		Inductance Henries	D.C. Resistance Ohms	Maximum D.C. Working Volts	Mounting Lamination and Stack
	Rated	Maximum				
TZ-460	10	15	50	2,200	300	SC-EI-5 $\frac{5}{8}$ "
TZ-461	30	40	30	900	300	SC-EI-6 $\frac{3}{4}$ "
<u>TZ-5</u>	40	50	10	500	300	SC-EI-5 $\frac{5}{8}$ "
<u>TZ-277</u>	40	60	15	500	300	SC-EI-6 $\frac{3}{4}$ "
<u>TZ-56</u>	60	100	20	350	500	OC-EI-8 1"
TZ-462	60	100	30	600	500	OC-EI-8 1"
TZ-3	100		20	300	500	OC-EIS-8 1"
<u>TZ-463</u>	100	150	20	400	500	OC-EI-8 1 $\frac{1}{4}$ "
TZ-844	100	120	0.1	20	250	SC-EIS-2 $\frac{1}{4}$ "
TZ-57	120		15	200	500	OC-EIS-8 1"
TZ-28	125		20	200	750	VBA-EI-12 1"
TZ-464	125	150	20	375	500	OC-EIS-8 1"
TZ-84	150		15	150	750	VBA-EI-12 1 $\frac{1}{2}$ "
<u>TZ-465</u>	150	200	15	210	500	OC-EIS-8 1 $\frac{1}{2}$ "
<u>TZ-466</u>	200	250	10	100	750	VBA-EI-12 1"
TZ-673	240		1	43	1,000	SC-EI-6 $\frac{3}{4}$ "
TZ-7	250		7.5	45	750	VBA-EI-12 1 $\frac{1}{2}$ "
TZ-469	250	300	15	100	750	VBA-EI-12 2"
TZ-1	250		12	65	750	VBA-EI-12 2"
TZ-840	250	300	1	15	500	SC-EI-7 $\frac{7}{8}$ "
TZ-843	250	300	0.15	5	250	SC-EI-4 $\frac{1}{2}$ "
TZ-63	300	400	10	50	750	VBA-EI-12 3"
TZ-841	300		1	35	500	SC-EI-6 $\frac{3}{4}$ "
TZ-842	500		0.1	5	250	SC-EI-5 $\frac{5}{8}$ "
TZ-394	600	800	12	60	1,000	VBA-EI-16 2"
<u>TZ-11</u>	1A	2A	0.05	0.5	250	SC-EI-6 $\frac{3}{4}$ "
TZ-344	5A	10A	7mH	0.1	500	OC-EIS-8 1 $\frac{1}{4}$ "

SWINGING CHOKES

TZ-467	250/25	300	3-15	40	750	OC-EIS-8 1 $\frac{1}{4}$ "
TZ-47	250/25		5-25	40	750	VBA-EI-12 1"
TZ-610	375/100		5-15	92	2,500	VBA-EI-12 2"
TZ-550	1.5A/10mA		0.5-2	2.25	750	VBA-EI-16 4"

TRIMAX



"Auto" types for increasing/decreasing mains voltage 50-100 c/s

1. Auto type power transformers offer considerable economy in physical size and price as compared with their double wound equivalents. However their use is not permitted by Electrical Supply Authorities for certain conditions of operation, and this point should be checked before selecting this type in preference to the double wound.
2. Ratings are based on a maximum ambient temperature of 40 degrees C. with a temperature rise not exceeding 50 degrees C. If used with a higher ambient, the loading must be reduced.
3. In cases where the secondary is terminated in a two pin socket the primary is connected to an approved connector box.
4. For physical details refer to the dimension sheets.
5. Numbers underlined indicate standard transformers normally carried in stock.

Catalogue No.	Primary Voltage	Secondary Voltage	VA Rating	Mounting Lamination and Stack
<u>TP-185A</u>	240	115	100	WC-EIS-8 1"
<u>TP-16A</u>	240	115	200	VBA-EI-12 1" Sec. 2 Pin Socket
TP-17A	240	115	300	VBA-EI-12 1½" Sec. 2 Pin Socket
TP-18A	240	115	400	VBA-EI-12 2" Sec. 2 Pin Socket
TP-69B	240	115	600	VBA-EI-12 3" Sec. 2 Pin Socket
TP-2499	240	115	1,000	VBA-EI-16 3" Sec. 2 Pin Socket
TP-1803	240	115	1,500	VBA-EI-16 4" Terminal Panel
TP-1724	200	240	500	VBA-EI-12 1¼" Sec. 2 Pin Socket
TP-2259	200	240	1,500	VBA-EI-12 3" Sec. 2 Pin Socket



POWER TRANSFORMERS

Step-Down Double Wound Types for 50-100 c/s operation

- Transformers with suffix (App.) are approved by the State Electricity Commission for use as Extra Low Voltage Transformers and are manufactured to the relevant Specification, S.A.A. No. C.126-1958 Ap.
- Ratings are based on a maximum ambient temperature of 40 degrees C. If used with a higher ambient, the loading must be reduced.
- For physical details refer to the dimension sheets.
- In cases where the secondary is terminated in a two pin socket the primary is connected to an approved connector box.
- Numbers underlined indicate standard transformers normally carried in stock.

Catalogue No.	Primary Voltage	Secondary Voltage	VA Rating	Mounting Lamination and Stack
TP-4355	240	12	50	OC-EIS-8 1½"
TP-1454A (App.)	240	12	100	VBA-EI-12 1" Sec. 2 Pin Socket (polarised).
TP-2500 (App.)	240	12	200	VBA-EI-12 2" & M149 Terminal Box
TP-1780 (App.)	230	32	70	M381-EIS-8 1½"
TP-400A (App.)	240	32	100	M122-EI-12 1"
TP-2501 (App.)	240	32 ct	200	M122-EI-12 2"
TP-399B (App.)	240	32 ct	300	M122-EI-12 3"
TP-2263A (App.)	230	32	575	VBA-EI-16 3" & M149 Terminal Box
TP-2580	415	32	750	VBA-EI-16 4" & M149 Terminal Boxes
TP-2985	240	32	1,050	BUT-1 2" Shrouds and Panel
TP-4356	240	32	1,500	BUT 1 3" Shrouds and Panel
TP-208A	240	110	65	WC-EIS-8 1½" Sec. 2 Pin Socket
TP-1633A	240	110	150	VBA-EI-12 1½" Sec. 2 Pin Socket
TP-1798A	240	110	300	VBA-EI-12 3" Sec. 2 Pin Socket
TP-4358	415	110	550	VBA-EI-12 3" Sec. 2 Pin Socket
TP-3345	240	110	1,000	BUT-1 2" Shrouds and Panel
TP-3591	415	110	1,000	BUT-1 2" Shrouds and Panel
TP-2264	240	115	550	VBA-EI-16 3" Sec. 2 Pin Socket
TP-2496	240	115	750	VBA-EI-16 4" Sec. 2 Pin Socket
TP-3138	230, 240	115	1,000	BUT-1 2" Shrouds and Panel
TP-3828	240	110, 115, 120	1,500	BUT-1 3" Shrouds and Panel
TP-3395	240	115	2,000	BUT-5 2½" Angle Frame and Panel
TP-3794	240	110	7,500	BUT-5 7½" Angle Frame and Panel

ISOLATION TRANSFORMERS

These types are fitted with Electrostatic shields

TP-3569A	240	240	200	VBA-EI-12 2"	} Terminal Panel or 3 Pin Socket on Secondary and Ceiling Rose on Primary.
TP-3078	240	240	250	VBA-EI-12 3"	
TP-2827	240	240 ct	500	VBA-EI-16 2½"	
TP-3518	240	240	800	VBA-EI-16 4"	

NOTE: WHEN ORDERING PLEASE SPECIFY TERMINATIONS REQUIRED.

TRIMAX

POWER TRANSFORMERS

Auxiliary Control Types for 50-100 c/s operation



1. These transformers are selected from our files and are representative of types generally supplied.
2. Should a transformer with different voltages or currents be necessary, please check the details on Page 2 for SPECIAL ORDERS, and include this information with your order.
3. Orders should include the application as some extra-low-voltage transformers are subject to the Approval of Electricity Supply Authorities. Australian Standard Specification C.126/58 defines these transformers as follows:

"This specification prescribes safety requirements for fixed and portable single-phase transformer units rated at not more than 1 kVA, suitable for connection on the input side to low or medium voltage circuits, and intended for operating appliances or equipment rated at 32 volts or less.

The specification does not apply to the following types of transformer:

 - (i) Battery charging transformers.
 - (ii) Instrument transformers.
 - (iii) Transformers for use in mines.
 - (iv) Railway signalling transformers.
 - (v) Transformers for use in electronic equipment and the like.
 - (vi) Transformers which are incorporated in equipment in such a way that all parts of the secondary circuit are either insulated for 250 volts or protected from inadvertent contact.
 - (vii) Constant current transformers."
4. Transformers listed below can only be used for applications covered by (i) to (vii) above. For usage where approval is necessary refer to Page A6.

Catalogue No.	Primary Voltage	Secondary Voltage	Rating	Mounting Lamination and Stack
TP-3099	240	12	6VA	SC-EI-6 $\frac{3}{4}$ "
TP-2821	240	22	30VA	SC-EI-8 1"
TP-3146	230	30	20VA	SC-EI-7 1"
TP-3588	110	20, 22, 24	200VA	VBA-EI-12 2"
TP-3643	230	20, 22, 24	200VA	VBA-EI-12 2"
TP-3863	230, 240	24	300VA	VBA-EI-12 3"
TP-3622	230	20, 22, 24	350VA	VBA-EI-16 2"
TP-3346	240	24	500VA	VBA-EI-16 3"
TP-2656	220, 240, 260	62	90VA	VBA-EI-12 1"
TP-3862	230, 240	110	50VA	OC-EIS-8 $1\frac{1}{4}$ "
TP-4353	240	1V, 2V, 4V, 4V, 10V, 10V (Six separate windings with marked polarity.)	All 1.8 Amp.	OC-EIS-8 $1\frac{1}{4}$ "



TRIMAX

Special Purpose Types

1. These transformers are selected from our files and are representative of types generally supplied.
2. Should a transformer with different voltages or currents be necessary, please check the details on Page 2 for Special Orders, and include this information with your order.

FURNACE IGNITION TRANSFORMERS

TP-3073B	240/5,000-5,000V 20 mA Specially designed for Spark Ignition Case Size 5" x 8 $\frac{1}{4}$ " x 5"H
TP-4354	240/12V 1.2A, 3V 21A Specially designed for Hot Wire Ignition EI-12 1" Open Clamp Mounting

BATTERY CHARGER TRANSFORMERS

Using Bridge Type Selenium Rectifiers

TP-2069A	240/6V 6A or 12V 3A DC	OC-EIS-8 1 $\frac{1}{4}$ "
TP-3100	240/6 or 12V 10A DC	VBA-EI-12 2"

SATURABLE REACTORS

1. These units are specials and made to order only. The two types listed are representative of types supplied and are designed for the control of 240v 50 c/s by 130v 100 mA D.C. The designed range of control is from 76v-228v.
2. Should you require reactors with different ratings or control, please supply complete information with your enquiry.

TZ694	2 KVA	BUT-1 1 $\frac{1}{2}$ "
TZ695	200 VA	BUT-5 1 $\frac{1}{2}$ "

TRIMAX

Metering Current Types for 50 c/s operation



1. These transformers are double wound and manufactured to Australian Standard Specification C.45 using only the best materials. They are tested and inspected in our own test laboratory to ensure complete reliability.
2. While not normal stock items they are representative of the types available, and are listed as standards. However, if a special is unavoidable, refer to Page 2 covering Special Orders and include this information with your order.

Catalogue No.	Ratio in Amperes	Burden	Ratio Accuracy	Class	Mounting Lamination and Stack
TC-164	10/5	15 VA	1%	B	M273-L6 1"
TC-165	15/5	15 VA	1%	B	M273-L6 1"
TC-166	20/5	15 VA	1%	B	M273-L6 1"
TC-167	30/5	15 VA	1%	B	M273-L6 1"
TC-168	50/5	15 VA	1%	B	M273-L6 1"
TC-169	75/5	15 VA	1%	B	M273-L6 1"
TC-170	100/5	15 VA	1%	B	M273-L6 1"
TC-130	300/5	15 VA	1%	BM	M273-L6 1 1/4"
TC-171	50/5	15 VA	0.5%	A	M273-L6 1 1/4"
TC-172	100/5	15 VA	0.5%	A	M273-L6 1 1/4"

Auto Transformers for Multi Range Meters (Designed for inclusion in the meter case)

TC-2	2.5, 5, 10, 25, 50, 100, 250, 500, MA 1, 2.5, 5, 10A/1.11 mA Using 0-1 MA Meter 1,000 ohms/volt and Meter Rectifier	1,000 ohms	1%		L4 1/2"
TC-15	1, 2.5, 5, 10, 25, 50, 100A/1A	1 VA	1%	B	S/C-EI-6 3/4"
TC-16	50, 100, 250, 500, mA, 1, 2.5/1A	1 VA	1%	B	S/C-EI-6 3/4"



TRIMAX

INSTRUMENT TRANSFORMERS

1. These transformers are double wound and manufactured to Australian Standard Specification C.45 using only the best materials. They are tested and inspected in our own test laboratory to ensure complete reliability.
2. For the listed protection transformers, an overcurrent factor of 50 for 0.5 seconds has been selected. With 60 Volts applied to the secondary and the primary open-circuited, the exciting current does not exceed 5 Amps. This condition corresponds to 12 times the rated secondary current.
3. While not normal stock items they are representative of the types available, and are listed as standards. However, if a special is unavoidable, refer to Page 2 covering Special Orders and include this information with your order.

Protection Current Transformers

Catalogue No.	Ratio	Burden	Ratio Accuracy	Class	System Volts	Mounting Lamination and Stack
TC-132	75/5A	15 VA	1%	C	440	OC-EI-12 1 $\frac{1}{4}$ "
TC-153	100/5A	15 VA	1%	C	440	OC-EI-12 1 $\frac{1}{2}$ "
TC-152	150/5A	15 VA	1%	C	440	OC-EI-12 1 $\frac{1}{2}$ "
TC-154	200/5A	15 VA	1%	C	440	OC-EI-12 1 $\frac{1}{2}$ "

Potential Transformers

TC-181	400/110V	15 VA	1%	B		VBA-EI-12 1 $\frac{1}{2}$ "
TC-125	110/240V	10 VA	1%	B		VBA-EI-12 1 $\frac{1}{4}$ "

TRIMAX

High Quality Low Level Types



1. Frequency characteristics: Every unit is guaranteed to have a frequency variation not exceeding ± 1 db from 30 to 10,000 cycles when used under correct conditions. To keep within the guaranteed variation at high frequencies, it is essential to reduce external secondary capacities to a minimum. Actual production units usually give performances far better than this. The transformers are designed for use with secondary loaded, and the frequency characteristic is, therefore, a function of power, not of voltage transfer, obtained by careful design without making use of winding resonances. For the best high-frequency response, it is desirable to keep the capacity across the secondary of high impedance input transformers to a minimum, and for this reason pentodes are preferable to triodes because of the large difference in input capacity.
2. Shielding: (a) Electro-magnetic: All types listed employ an astatic hum balancing structure with primary and secondary coils each in two separate sections. Improvement of this type over ordinary shell cores is of the order of 40 to 50 db depending on the uniformity of the interfering field. An additional advantage of this construction is the great improvement in symmetry and balance of coil sections. Outer cases of mild steel or high conductivity non-ferrous metal also give additional shielding. For particularly low-level operation, where freedom from hum pick-up is absolutely essential, special types are offered which, in addition to the above incorporate triple shields of high permeability nickel iron alloy. The additional improvement is approximately 40 db.
(b) Electro-static: Transformers are guarded against this type of external interference by the use of an efficient outer case. The high conductivity, non-ferrous case is best for this purpose.
(c) Longitudinal currents: The transfer of longitudinal currents from primary to secondary is attenuated to a considerable degree by the provision of high-conductivity shields between windings. These shields also improve the balance to ground of the windings.
3. Cases: The first case listed is standard and should another type be necessary, please specify by number. Where the M66 case is standard the transformers can be supplied in the special PMG relay set mounting case M455.
4. Multi shielded transformers are designated by "MS".
5. † indicates that these transformers have, at 1Kc, better than 80 db of balance between the two halves of the primary.
6. Numbers underlined indicate standard transformers normally carried in stock.

Mixing (Line to Line) Transformers

For Line, Microphone or Pickup Matching Balanced or Unbalanced

Catalogue No.	Case Type	Impedance in Ohms		Turns Ratio	Max. Level dbm	Frequency Variation db /Cycles	Unbal. DCmA
		Primary	Secondary				
TA-636	M66, M91, M8	50	200	1-2	+18	$\pm 0.5/30-40\text{Kc}$	0
TA-406A	M66, M91, M8	50	600	1-3.46	+18	$\pm 0.5/30-40\text{Kc}$	0
TA-101	M66, M91, M8	200	200	1-1	+18	$\pm 0.5/30-40\text{Kc}$	0
TA-168A	M66, M91, M8	200	600	1-1.73	+18	$\pm 0.5/30-40\text{Kc}$	0
<u>TA-37A</u>	M66, M91, <u>M8</u>	600	600	1-1	+18	$\pm 0.5/30-40\text{Kc}$	0
TA-1774†	M66, M91, M8	150	600	1-1	+18	$\pm 1/30-15\text{Kc}$	0
TA-1693†	M66, M91, M8	600	600	1-1	+18	$\pm 1/30-15\text{Kc}$	0
<u>TA-793</u>	M17	600	600	1-1	+36	$\pm 1/20-15\text{Kc}$	0
<u>TA-1094A</u>	M17	600	1,200	1-1.41	+36	$\pm 1/20-15\text{Kc}$	0
Multi Shielded Types							
MS-944	M66, M143	50	200	1-2	+10	$\pm 0.5/30-40\text{Kc}$	0
MS-866	M66, M143	50	600	1-3.46	+10	$\pm 0.5/30-40\text{Kc}$	0
MS-945	M66, M143	200	200	1-1	+10	$\pm 0.5/30-40\text{Kc}$	0
MS-946	M66, M143	200	600	1-1.73	+10	$\pm 0.5/30-40\text{Kc}$	0
MS-896	M66, M143	600	600	1-1	+10	$\pm 0.5/30-40\text{Kc}$	0

Input (Bridging) Transformers

From 50-600 ohm Lines to Single or Push-Pull Grids

TA-17	M66, M91, M8	10,000	100,000	1-3.16	+18	$\pm 0.5/30-12\text{Kc}$	0
TA-731A	M66, M143	12,500	100,000	1-2.83	+10	$\pm 1/20-20\text{Kc}$	0



TRIMAX

High Quality Low Level Types

Input (Line to Grid) Transformers

Line, Microphone or Pickup to Single or Push-Pull Grids

Catalogue No.	Case Type	Impedance in Ohms		Turns Ratio	Max. Level dbm	Frequency Variation db /Cycles	Unbal. DCmA
		Primary	Secondary				
TA-61	M66, M91, M8	50	100,000	1-44.7	+18	±0.5/30-12Kc	0
TA-47	M66, M91, M8	200	100,000	1-22.4	+18	±0.5/30-12Kc	0
TA-82	M66, M91, M8	600	100,000	1-12.9	+18	±0.5/30-12Kc	0
TA-1076	M66, M91, M8	600	50,000	1-9.2	+18	±1.0/20-50Kc	0

NOTE: On TA-1076 external Secondary capacity must not exceed 30 pf.

Multi Shielded Types

MS-860	M66, M143	50	100,000	1-44.7	+10	±1.0/30-10Kc	0
MS-837	M66, M143	200	100,000	1-22.4	+10	±1.0/30-10Kc	0
MS-878	M66, M143	600	100,000	1-12.9	+10	±1.0/30-10Kc	0
MS-977	M91	50	60,000	1-34.8	+18	±1.0/30-15Kc	0

NOTE: MS-977 is used with Secondary unterminated

Interstage Transformers

Single or Push-Pull 10,000 ohm Plates to Push-Pull Grids

TA-3	M66, M91, M8	40,000	160,000	1-2	Whole Sec. 120V P	±1.0/30-10Kc	0
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Output (Plate to Line) Transformers

Single 7,000-10,000 ohm Plates to Line

TA-835	M66, M91, M8	20,000	50	20-1	+24	±1.0/30-12Kc	6.5
TA-833	M66, M91, M8	20,000	200	10-1	+24	±1.0/30-12Kc	6.5
TA-733B	M66, M91, M8	20,000	600	5.8-1	+24	±1.0/30-12Kc	6.5

Push-Pull 7,000-10,000 ohm Plates to Line

TA-931	M66, M91, M8	20,000	600	Ratio Corrected 24.5-1	+24	±1.0/20-15Kc	1.0
TA-947	M66, M91, M8	30,000	50	24.5-1	+27	±1.0/30-12Kc	1.0
TA-948	M66, M91, M8	30,000	200	12.3-1	+27	±1.0/30-12Kc	1.0
TA-710A	M66, M91, M8	30,000	600	7.1-1	+27	±1.0/30-12Kc	1.0

NOTE:

- The above transformers are designed for use with the secondary winding terminated unless otherwise stated. For use unterminated the low frequency variation would increase by approximately 1 to 2 db.
- Both primary and secondary windings are in two sections. Impedances shown are for the series connection in which a centre tap is available. If coils are connected in parallel, impedances are equal to 25% of those shown, and no centre tap is available.
- Most of the above transformers are usable in circuits with impedances differing ± 25% of the values shown, without exceeding the guaranteed response. (Both primary and secondary impedances would be altered in the same ratio).
- If either the primary or secondary is terminated in the rated impedance, the impedance measured on the other side will be higher than the value shown, due to the dc resistance of the transformer windings. This increase is negligible in all types with the exception of output transformers and line transformers, type TA793.
- dbm equals decibels referred to 1 milli-watt.
- If transformers specified with an unbalanced dc of zero, in actual use, have unbalanced dc present, low-frequency response will drop. On removal of the unbalance the response will revert to normal.
- Type TA793 and TA1094A transformers have extremely accurate balance of coil sections and are suitable for phantom working. The transformers will also handle 17 cycles ringing current in telephone circuits. An electrostatic shield between windings is not provided in these types.

SPECIAL PURPOSE AUDIO AND CARRIER FREQUENCY TRANSFORMERS



1. These transformers are selected from the wide range of special purpose types available.
2. Types differing from the following are included in our range, and enquiries for special types will receive our full co-operation.
3. A full statement of requirements must be included when seeking transformers of these or similar characteristics.
4. Numbers underlined indicate standard transformers normally carried in stock.

Catalogue No.	Case	Application	Impedance Ratio		Frequency Response ± 1 db	Level dbm
			Primary	Secondary		
<u>TA-770</u>	M8-M66	Line to grid	600 bal.	200,000 ct	50c/s-8Kc	+10
<u>TA-605</u>	M8, M66	Line matching balance of secondary better than 60 db	600 bal.	1,200 bal.	20c/s-40Kc	+18
<u>TA-763</u>	M8, M66	Carrier line matching	600/150	600/150	50c/s-150Kc	+18
TA-796A	M8, M66	Carrier line to grid	600 bal.	60,000	300c/s-30Kc	+18
TA-797	M8, M66	Carrier plate to line (no D.C.)	6,000	600 bal.	1Kc-30Kc	+18
TA-909	M8, M66	Carrier bridging (300 ohms)	30,000 bal.	30,000	30c/s-50Kc	+18
TA-1103C	M8	Carrier line to grid	600 bal.	20,000	3Kc-150Kc	+18
TA-1104B	M8	Carrier plate to line	6,000	600 bal.	3Kc-150Kc	+27
TA-1105A	M8	Carrier line matching Note: Bal. of windings better than 60 db up to 200Kc and better than 40 db to 1 MC	600/150	600/150	3Kc-500Kc	+18
TA-1147	M8, M51	Carrier line matching auto Note: When supplied in M51 case includes 4uF condensers for D.C. isolation	600	130/150	100c/s-45Kc	+18
TA-913B	M17, M51	Wide band line matching auto	600	115/120	20c/s-300Kc	
TA-914B	M17, M51	Wide band line matching auto	600	125/130	20c/s-300Kc	
TA-915B	M17, M51	Wide band line matching auto	600	135/140	20c/s-300Kc	
TA-916B	M17, M51	Wide band line matching auto	600	145/150	20c/s-300Kc	
TA-917B	M17, M51	Wide band line matching auto	600	155/160	20/cs-300Kc	



TRIMAX

TELEPHONE ISOLATION TRANSFORMERS

One method of protecting a telephone from high voltages appearing on the line is the use of an Isolation Transformer.

The two types listed are representative of the units we manufacture and are for use in portable equipment or in permanent locations.

Special construction and resin potting are combined to give an adequate margin of safety and also to give complete dependability under the severest climatic conditions.

TA-1588 (Resin Cast)

Dimensions	Approximately 4" x 2½" x 4"H
Ratio	200 ohm ct line/600 ct equipment
Insertion loss	Not greater than 1.2 db 400-4,000 c/s
Balance	Line winding greater than 60 db
Test Voltage	15 KV RMS line to equipment

This transformer has electrostatic shields and is astatically wound to reduce the possibility of cross talk to a minimum.

It is used for voice frequencies and VF signalling.

TA-1704 (Resin Cast)

Dimensions	Approximately 5" x 2¼" x 3½"H
Ratio	600 ohm ct line/600 ohm ct equipment
Insertion loss	1 db at 1,000 c/s and not more than 2.8 db at 3 Kc
Test Voltage	20Kv RMS line to equipment

This transformer has been designed to handle 17 c/s ringing current and is astatically wound with electrostatic shields.

Neutralising Transformers

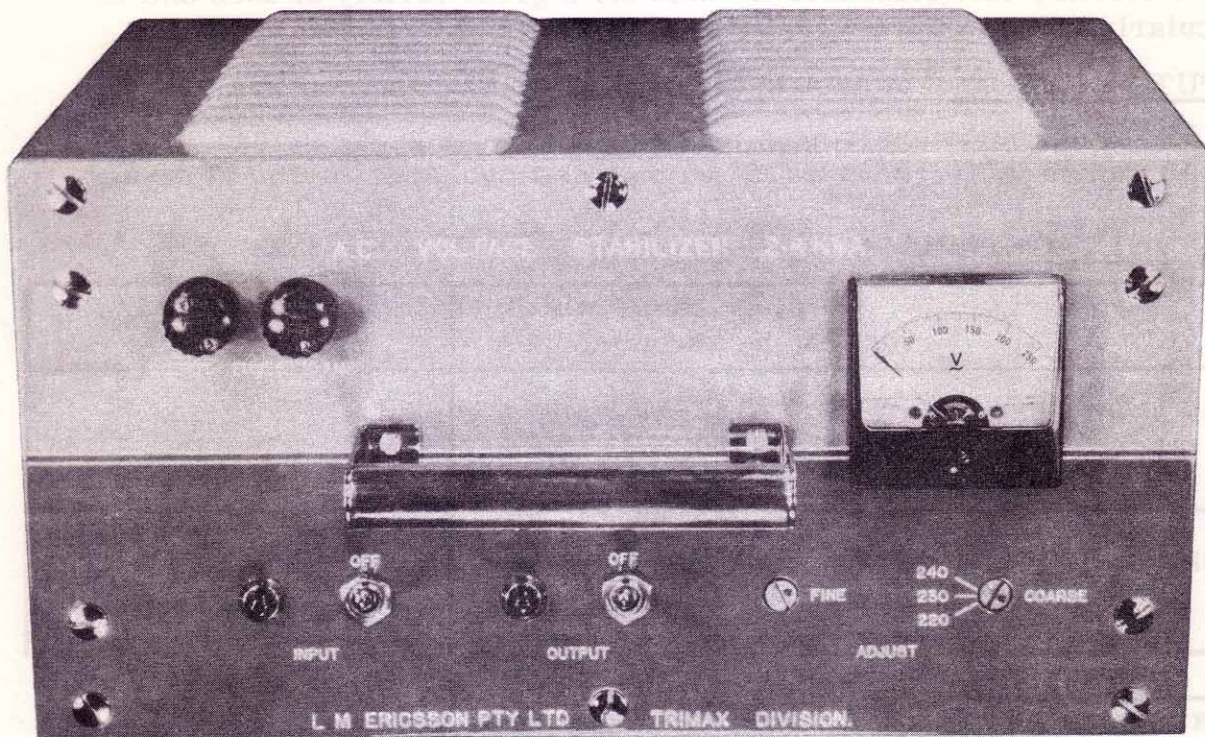
Another recent development is a neutralising transformer which is used to protect one or more exchange lines from high voltages developed during an earth fault at a power station. This method preserves the D.C. continuity in the lines without any serious effect on the transmission quantities. Because of the application of these transformers they are not listed but full information is available on request.

TRIMAX

VOLTAGE STABILIZER

TYPE

S 116



L M ERICSSON PTY. LTD.
TRIMAX DIVISION

Cnr. CHARLES & WILLIAM STS.
COBURG, N.13
VICTORIA

TRIMAX S.C. LINE VOLTAGE STABILIZER-TYPE S116.

This unit is a motor operated, servo-control system giving continuous control action.

The output is adjustable for 9 or 10 ampere loads. Being free of wave form distortion, this stabilizer is ideal for a great variety of uses and is particularly suitable for several types of industrial X-ray equipment.

OUTPUT VOLTAGE Adjustable from 215 - 245 volts.

Maximum deviation from r.m.s. voltage setting: Less than $\pm 0.1\%$.

Maximum drift from r.m.s. voltage setting: About 0.1%/50 days.

INPUT VOLTAGE

	Voltage range which can be accommodated	Output Voltage Setting
9 amp connection	182-241	220
	190-250	230
	198-262	240
10 amp connection	185-239	220
	193-248	230
	202-259	240

RATE OF RESPONSE Minimum response time for small deviations is approximately 0.25 seconds. Rate of response for large deviations 18 volts/second.

AMBIENT TEMPERATURE Maximum output is available up to ambient temperatures of 50°C

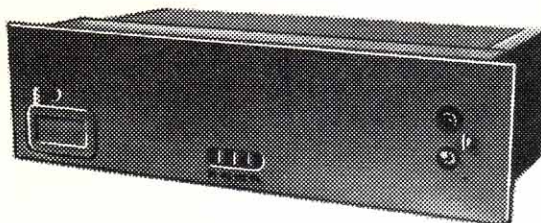
DIMENSIONS Base 13½ inches by 11 inches. Height 8 inches.

WEIGHT Less than 50 lbs.

TRIMAX

AMPLIFIER TYPE A54B

12/20 Watt High Fidelity



GENERAL:

The "Trimax" Amplifier Type A54B is a high quality amplifier designed to drive a wide range monitor loudspeaker, or to act as a distribution amplifier for a large number of lines. Two output impedances are available — 12 ohm or 3 ohm. The input is suitable for bridging a terminated 600 ohm line. The type A54B differs from the old type A54, in the use of silicon diodes in place of the thermionic rectifier, to reduce heat and improve reliability.

PHYSICAL DESCRIPTION:

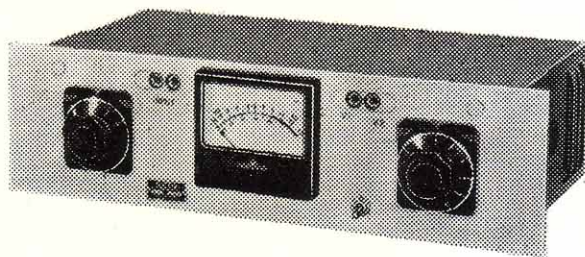
The unit is designed for standard rack mounting, and occupies three rack units ($5\frac{1}{4}$ "). Input, output, and power connections are by means of plugs and sockets.

SPECIFICATION

Gain	42 db continuously variable by means of input potentiometer.
Frequency Response .	$\pm .5$ db from 20 cycles to 20 Kc. ± 1 db from 15 cycles to 30 Kc.
Stability	The frequency response does not vary by more than 1.5 db outside the limits stated above when the output termination is varied from open circuit to 600 ohms resistance, or 50 ohms in parallel with 0.2 mfd., and the amplifier is free from oscillations under these conditions.
Source Impedance ..	300 ohms.
Input Impedance ..	Greater than 25,000 ohms.
Load Impedance ..	12 ohms or 3 ohms, changeable by output plug wiring.
Output Impedance ..	Less than 1.5 ohms and .4 ohms respectively.
Noise	Equivalent noise input to the amplifier is less than -80 dbm with the gain control in its maximum position.
Power Output	Nominally 12 watts at less than .25% distortion at 1 Kc. A power output of approximately 20 watts is obtainable for 1% distortion.
Power Input	200-250 volts, 40-100 cycles, selected by fuse position. Primary current approximately .5 amp.
Cathode Metering ..	Metering jacks are provided for each tube giving approximately $\frac{1}{2}$ scale reading on a 1 mA 1,000 ohms per volt meter.
Output Tubes Balance	A potentiometer is provided for balancing the D.C. current of the output tubes.



EXTENDED RANGE VOLUME INDICATOR



These units are for standard 19" rack mounting and occupy 5¼" of panel space. The G4 mains operated unit is completely self contained as illustrated and the G2 requires only the D.C. power given in the specification.

There are many applications where widely varying dynamic levels are required to be measured on programme lines. The "Trimax" Extended Range Volume indicators, employing a high stability feedback amplifier in conjunction with a VU meter, have been specially designed for this purpose. Control of the Amplifier gain is by two stepped attenuators giving coarse and fine adjustment. At zero position on these attenuators the meter shows a deflection of zero VU when a voltage of 0.7746 RMS is impressed on a 600 ohm line.

SPECIFICATION

G2 Battery Operated

Power Requirement 130 V. 5mA D.C. 24 V. 0.3A D.C.

G4 Mains Operated

Power Requirement 200-250 V. 50 c/s Mains.

Indicator Range — 40 dbm to + 33 dbm.

Level Control In 2 db steps.

Frequency Range ± 0.5 db 20 c/s — 60 Kc.

Attenuator Accuracy ± 0.1 db at 1 Kc.

Source Impedance 300 ohms (bridging 600 ohms line).

Input Impedance 30,000 ohms.

Level Indication 4" Square meter.

VOLTAGE REGULATORS



GENERAL:

These "Trimax" regulators are ideal for use with electronic equipment and apparatus operated from 50 c/s 230-240V A.C. mains. The effect of varying supply voltage is virtually eliminated and although the D.C. output of rectifiers is reduced because of the harmonic content and higher source impedance, it remains stable. The D.C. variation of up to 10% is seldom important when weighed against the advantages of a stable supply.

- Range of Control** . . . For an input variation from 190 - 260V 50 c/s the output remains $\pm 1\%$.
- Output Voltage** . . . The output is nominally between 230 and 240V R.M.S.
Specially selected units are available to specific voltages within this range.
- Frequency** Because of the tuned saturable reactor circuit used, the regulator is sensitive to frequency.

TYPES S38 AND S40

Power Output: 60VA max.

Connections: **S38:**
Input 3-pin plug.
Output 3-pin socket.

S40:
Input and output conduit entries.

Case: Sheet metal case
10½ in. x 4½ in. x 4½ in.
H. with mounting flange at each end.
Special dimples are formed on the base for normal bench use.

Weight: 13 lbs.

TYPE S82

Power Output: 250VA max.

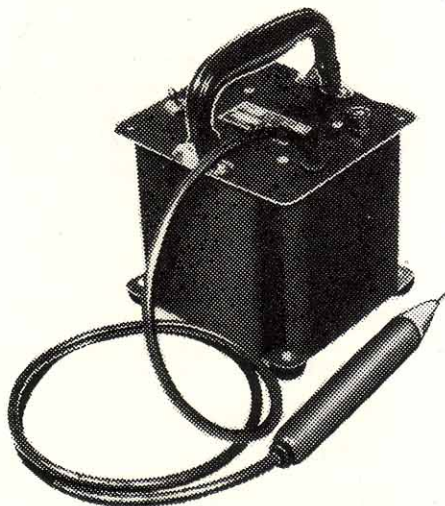
Connections: Input 3-pin plug.
Output 3-pin socket.
Other methods can be provided.

Case: Sheet metal case
19 in. x 5¼ in. x 6½ in.
H. with mounting flange at each end.
The unit is suitable for standard 19 in. rack mounting or normal bench use.

Weight: 30 lbs.



INDUSTRIAL FLASH TESTERS



GENERAL

These A.C. testers have been designed to cover the normal production line testing of electrical appliances and components. Being portable they can be used in any suitable location where 240V 50 c/s is available.

Any insulation breakdown in the unit under test is indicated by the glow from a neon tube which is mounted in the tip of the probe. Faults are therefore shown at the test point which ensures fast and reliable testing. Since the short circuit current is limited to less than 6 mA the unit is non lethal and accidental applications to equipment are not likely to cause damage.

The following units have been selected as standards and cover test voltages up to 3,000V. Other voltages can be supplied to order.

Type	Case Dimensions	Output Voltage
S47	5½ in. x 5 in. x 4½ in. H.	1,000V RMS
S57	5½ in. x 5 in. x 4½ in. H.	1,000/1,250V
S70	5½ in. x 5 in. x 4½ in. H.	1,500 or 2,000V RMS selected by switch
S56	16 in. x 8½ in. x 11½ in. H.	500-2,500 in 500 Volt Steps. This unit also includes a meter for accurately setting the voltage.
S60	16 in. x 8½ in. x 11½ in. H.	500-3,000V in 500 Volt Steps. Identical to S56 except for higher voltage.

TRIMAX

IONISATION TESTERS



THE IDEAL METHOD OF TESTING TELEVISION AND OTHER HIGH VOLTAGE COMPONENTS



Ionisation Testers provide the most convenient way of determining that the life of an electrical component is not shortened by ionisation currents occurring at or below the working voltage. These instruments enable the quality of insulating materials to be determined non-destructively and provide an excellent means of testing components for faulty impregnation and dampness.

SPECIFICATION

Output Voltage	.. .. .	50-1000 volts (on 1kV terminal) 500-10,000 volts (on 10kV terminal)
Current Ranges	.. .. .	0-2 uA, 0-20 uA, 0-200 uA
Resistance Range	.. .. .	100,000 megohms at 10kV and proportionately at lower voltages
Ionisation Detection	.. .. .	By self-contained loudspeaker or by head phones (with speaker muted)
Amplifier Gain	.. .. .	Exceeds 100 db
Amplifier Frequency Range	.. .. .	Approx. 500 c/s to 7 Kc/s
Power Consumption	.. .. .	50 VA max.
Power Supply	.. .. .	200-250 volts A.C. 40-60 cycles
Dimensions	.. .. .	16" x 8½" x 11½" high
Weight	.. .. .	Approx. 30 lbs.

The "Trimax" Ionisation Tester Type G1B has been designed for use as either a field production or laboratory test instrument, and has been constructed in portable form rather than for mounting in a standard rack. It is non lethal in normal use but large capacities being tested can hold lethal charges. These must be treated with caution.



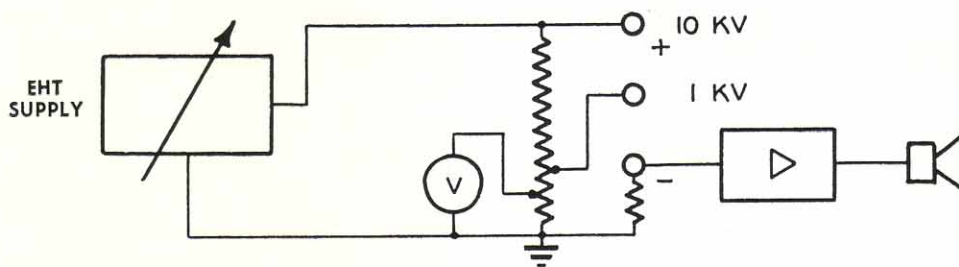
"TRIMAX" G1-B IONISATION TESTER

GENERAL DESCRIPTION AND CIRCUIT PRINCIPLES

Among the many uses of this instrument is the detection of ionisation and the measurement of insulation resistance of components and equipment whether they are connected to earth or isolated. Electric motors or transformers, for instance, can be tested on site. For accurate leakage current measurements a guard terminal is provided to eliminate unwanted currents. This is particularly useful when measuring the insulation resistance between two conductors in a screened cable.

EHT UNIT :

The variable D.C. output is obtained by controlling the screen voltage of an RF oscillator operating at approximately 100 Kc. The output of this oscillator is fed to a special RF transformer, then rectified, filtered and applied to a voltage divider. Ten per cent of the output is connected to the 1000V terminal and the full voltage to the 10,000 volt terminal. Both voltages are direct reading on the meter.



VOLTMETER CIRCUIT :

The vacuum tube Voltmeter circuit uses two triodes with 100% degenerative feedback ensuring a high degree of linearity. The effect of variations in tube characteristics is kept to a minimum and the zero and sensitivity are unaffected by changes in the line voltage. Leakage currents through the sample are determined by measuring, by means of the vacuum tube voltmeter, the voltage drop across selected accurately calibrated series resistors.

AUDIO AMPLIFIER :

This is a three stage high gain amplifier using three pentode stages. The input valve is a special low noise type and the restricted frequency range of 500 cycles to 7 Kc reduces the hum frequency components by as much as 40 db. The hissing or rushing noise which shows the onset of ionisation is easily detected, but for noisy locations headphones can be used. The impedance of the headphones is not critical and when they are plugged in, the speaker is muted.

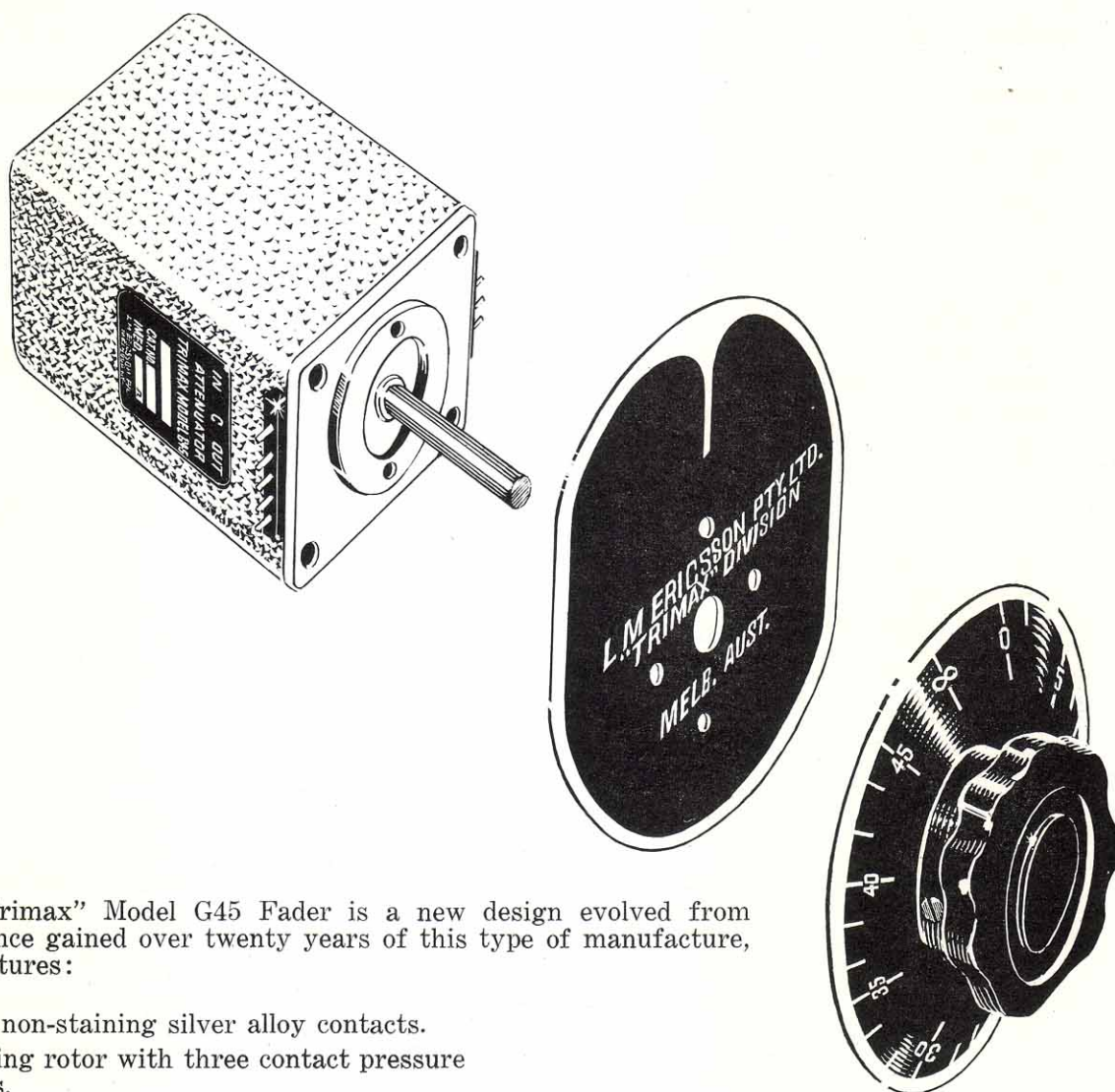
POWER SUPPLY :

Supply voltages from 200-250 Volts A.C. 40-60 cycles can be used and the correct transformer tap is selected by adjusting the tap changing fuse holder which projects into the storage compartment.

The storage compartment is built into the bottom of the case and holds the input lead and the instruction booklet.

TRIMAX

ATTENUATORS AND FADERS



The "Trimax" Model G45 Fader is a new design evolved from experience gained over twenty years of this type of manufacture, and features:

- Solid non-staining silver alloy contacts.
- Floating rotor with three contact pressure points.
- Optimum, permanently maintained contact pressure.
- Rigid four pillar construction.
- Porous bronze main bearing.
- Stainless steel spindle.
- High quality phenolic resin stud plates with acetal resin rotor bosses.
- Diamond lapped contact surfaces.
- Positive knob stop in addition to individual rotor stop.
- High stability resistors.

It can be supplied in balanced or unbalanced forms of Potentiometer and Ladder, or as Bridged-T.



TRIMAX

ATTENUATORS AND FADERS

ELECTRICAL SPECIFICATION:

Attenuation Range: 31 positions. The first 27 steps are 1.66 db each giving a total of 45 db. The last three steps taper to infinity.

Attenuation Setting: Indicated by dial, calibrated in 5 db increments (every 3 steps) with intermediate divisions.

Accuracy of Calibration: ± 0.5 db in any 5 db section. Within 1 db of nominal in any position.

Frequency Characteristics: Dependant on attenuator form and impedance, e.g., within 0.5 db from D.C. to 100 Kc. for a 600 ohm ladder in any position.

Impedance: Our standard designs cover the impedances listed below and other values are subject to special order.

Input and Output Impedance Tolerance: Within 10% of nominal except on last three steps.

Off-normal Contacts: These are changeover contacts, i.e., S.P.D.T. operating on the last 2 steps of the control and can be fitted to any type.

If required add letter "X" to Catalogue No.

Insertion Loss: Ladder types 6 db. Potentiometers and bridged "T" types 0.db.

PHYSICAL SPECIFICATION:

Cover size: $2\frac{3}{32}$ " square plus terminal pin projections.

Dial diameter: $2\frac{1}{2}$ ".

Escutcheon: Oval $2\frac{1}{2}$ " x 3".

Overall depth behind panel: Single unit $2\frac{1}{16}$ "; Double unit $3\frac{3}{16}$ ".

Mounting: 2 x $\frac{5}{32}$ " holes $1\frac{1}{2}$ " centre distance with $\frac{1}{2}$ " dia. centre hole.

INSTALLATION:

1. Remove knob and dial assembly, and escutcheon plate.
2. Attach to panel with the two holding screws which also hold the escutcheon plate.
3. Rotate the spindle by fingers either clockwise or anti-clockwise until the rotor stops engage.
4. Fit knob and dial assembly to spindle with approximately $\frac{1}{32}$ " clearance between dial skirt and escutcheon and rotate in same direction as in 3 until the knob **firmly** engages the knob stop. Tighten knob grub screws.

Note: (a) The plastic covered holding screw which also functions as the fixed part of the knob stop is normally positioned on the left-hand side of the spindle.

(b) The fader may be mounted with the terminal lugs in either a horizontal or vertical plane by correctly positioning the two holding screw holes. Faders are normally assembled for vertical plane mounting, and, if the horizontal plane is preferred, it is necessary only to loosen the dial skirt plate retainer screws on the knob, rotate the dial to the correct position, and re-tighten the screws.

MAINTENANCE:

1. Sufficient lubrication is applied to the spindle bearings during manufacture to function indefinitely, but if it appears desirable to re-lubricate, apply one **small** drop to each bearing, applied preferably by a piece of $\frac{1}{16}$ " dia. wire, which has been dipped in a light machine oil.
2. Contacts: These may be "dry" or lubricated. If the preference is for lubrication, use only pure lanoline or "Electrolube". If electrical noise develops, which is unlikely, clean contact surfaces with a small brush dipped in Chlorothene NU, or other high quality solvent. Abrasive cleaning should not be attempted as this would destroy the high surface finish resulting from diamond lapping.

STANDARD TYPES

Potentiometers	Unbalanced Ladder	Balanced Ladder	Bridged "T"
A7P 10K ohms	*A1L 600 ohms	*A1M 600 ohms	A2T 600 ohms
A6P 100K ohms	A2L 200 ohms	A2M 200 ohms	A3T 200 ohms
A4P 500K ohms	A3L 50 ohms		

* Stock types.



Materials used in their manufacture are the best obtainable and comply with all the relevant British Standard Specifications. Careful inspection at every stage of production ensures rejection of any faulty parts.

- All contact surfaces are silver plated, and pins are end drilled for ease of connection to cable wires.
- Average voltage drop across a single contact with a current flow of 15 amperes does not exceed 6 millivolts.
- Shells and bodies are die cast in zinc base alloy.
- Contact insulation is moulded bakelite.
- Springs are made in spring temper Phosphor Bronze.
- Easy release latch lock fittings are incorporated to prevent accidental parting of connectors.
- All castings are Cadmium plated.
- All cord grip fittings will take a cable with maximum diameter of $\frac{1}{2}$ in. A 2 in. length of rubber tube with inside diameter of $\frac{9}{32}$ in. is supplied for use with cables of smaller diameter.
- Contact insulation is checked at 1,500 volts R M S.
- Wall Mounting Plates are finished in florentine bronze.

Cat. No.	Contacts	Cat. No.
S3F	3	P3MS
S4F	4	P4MS
S6F	6	P6MS



Cat. No.	Contacts	Cat. No.
S3M	3	P3FS
S4M	4	P4FS
S6M	6	P6FS



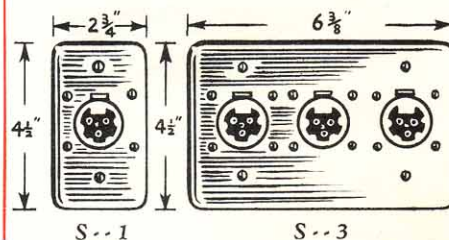
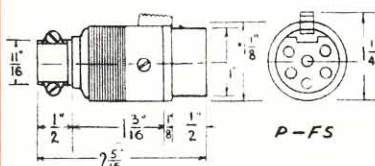
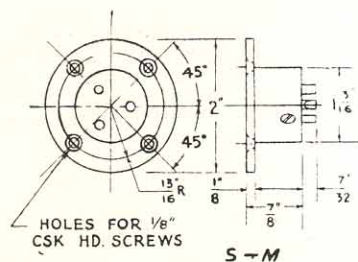
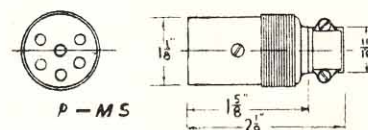
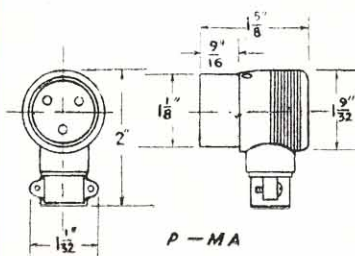
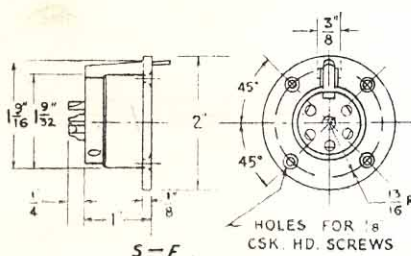
Cat. No.
P3MA
P4MA
P6MA

4½ in. x 2¾ in.

S3F1	One socket on plate
S4F1	One socket on plate
S6F1	One socket on plate
S3M1	One socket on plate
S4M1	One socket on plate
S6M1	One socket on plate

4½ in. x 6½ in.

S3F3	Three sockets on plate
S4F3	Three sockets on plate
S6F3	Three sockets on plate
S3M3	Three sockets on plate
S4M3	Three sockets on plate
S6M3	Three sockets on plate





TRIMAX

MISCELLANEOUS COMPONENTS

PILOT LAMP HOLDERS



"M 156 R" With transparent or translucent plastic lens in Red, Green, White, Amber or Clear. For MES or MBC globes.

"M 156 T" With transparent or translucent plastic lens in Red, Green, White, Amber or Clear. For Side Contact Telephone Lamp No. 2.

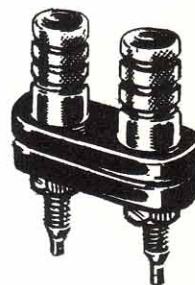
Both lamp holders are designed for lamps with a maximum dissipation of 2 watts.

INSTRUMENT TERMINALS AND PANEL

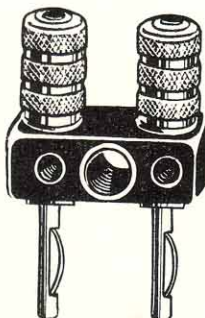
"M 57" A nickel plated brass terminal with knurled top, and end drilled $\frac{5}{32}$ in. diameter to take a standard "banana" plug. Shank length $\frac{3}{4}$ in. M57/2 — Shank length $1\frac{1}{4}$ in.

"M 176" Identical to the M57 but with an insulated top. Available in standard colours of Red and Black. Shank length $\frac{3}{4}$ in. M176/2 — Shank length $1\frac{1}{4}$ in.

"M 62" Terminal panel suitable for mounting these terminals at $\frac{3}{4}$ in. centres on panels of a minimum thickness of .040 in.



TWO PIN PLUG



"M 682" An instrument or equipment plug with standard $\frac{3}{4}$ in. spacing between pins. The pins are each drilled to take "banana" plugs or another M682 either end in or crossways. Captive knurled nuts are available for loose lead connections.

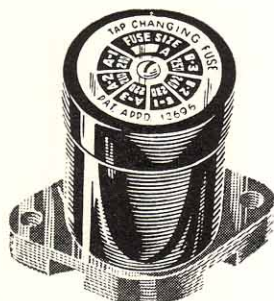
"M 1058" Similar to M682 but with insulated top terminals.

TRIMAX

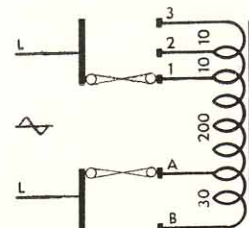
MISCELLANEOUS COMPONENTS



FUSE HOLDER—"M 10"



The Trimax Tap-changing fuse holder is suitable for fuses up to 5 amp. capacity, and because of the alternative fuse positions, is a convenient means of tap-changing. All contact surfaces are silver plated, and the springs do not carry current. When the top cap is removed for adjustment or replacement of fuses, the line connections are broken, thus eliminating danger of shock.

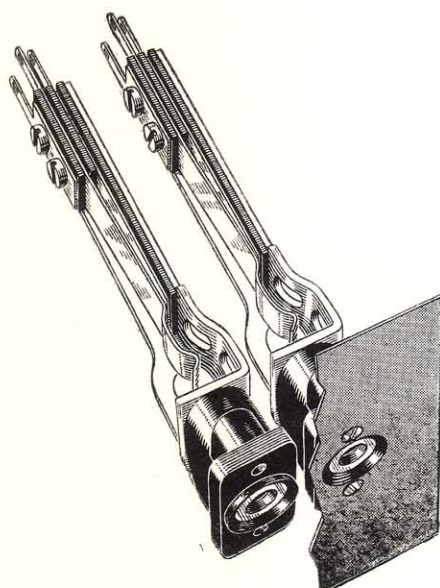


VERNIER DRIVE—"M 48"

A vernier drive with a ratio of approximately 10-1, of the friction type, using hardened steel balls and a drive spindle of silver steel. The driving spindle diameter is $\frac{1}{4}$ in., and the unit is for fitting to a $\frac{3}{8}$ in. shaft. Its overall length is $2\frac{3}{4}$ in., and overall diameter 1 in.



JACK MOUNTING BLOCK—"M 11"



A handy insulating block for mounting of telephone jacks with an outside barrel diameter of .450 in. and a length of .580 in. Using these blocks it is possible to mount a single row of jacks at $\frac{3}{8}$ in. centres. The block is provided with holes of suitable diameter to take number 4 self-tapping screws.



TRIMAX

MISCELLANEOUS COMPONENTS

MICROPHONE STANDS

ROUND BASE TABLE STAND, FIXED OR ADJUSTABLE TYPES

Base Diameter 6 in.

HEIGHT: Fixed Type 14 in.

HEIGHT: Adjustable Type 14 in. - 21 in.



ROUND BASE FLOOR STAND

Base Diameter 12 in.

HEIGHT: Adjustable 3 ft. 6 in. - 6 ft. 6 in.

WEIGHT OF BASE: 13 lbs.



HEAVY DUTY TRIPOD BASE FLOOR STAND

HEIGHT: Adjustable 4ft. 6 in. - 7 ft. or
3 ft. 6 in. - 6 ft. 6 in. As Ordered.

WEIGHT OF BASE: 22 lbs.



TRIMAX

SHEET METAL WORK

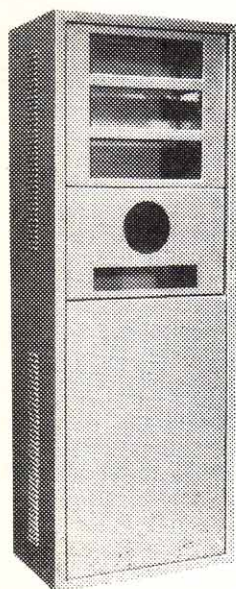


In the early stages of "Trimax" development it was decided to make the organisation as self contained as possible. To assist in this, a comparatively elaborate sheet metal section was established to manufacture the many types of covers, cases, chassis and cabinets used with our products.

The excellent workmanship and finish, as well as competitive pricing, has led to an expanding market in Industry and with Government Departments. To keep pace with this expansion, new machines have been installed, and company policy is to replace these machines with improved types as they become available. The working area now exceeds 10,000 sq. ft.

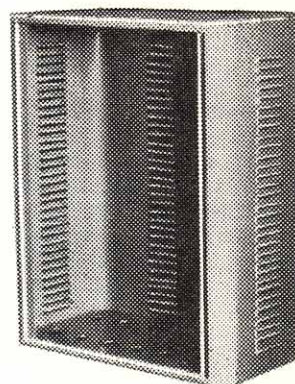
Facilities are available for fabrications in all standard rolled or extruded sections as well as panels, cabinets and cubicles up to 8' by 10 gauge steel, or brass and aluminium up to $\frac{1}{4}$ ".

A large degreasing bath has been installed to insure completely clean surfaces for the application of primers and the finished product is normally stoved in a temperature controlled oven. Spray finishes in all standard materials are applied in a closed spray room which has a filtered air supply.



This special rack cabinet is typical of types used in Public Address and Communication Equipment. Similar cabinets can be made to special order and our staff of highly skilled personnel are always ready to assist you.

RACK CABINETS for standard 19" panels are another standard line, and can be made for any panel space, usually in multiples of $1\frac{3}{4}$ ", which is the basic unit for this type.

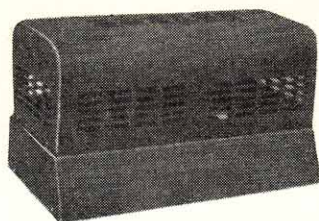




TRIMAX

SHEET METAL WORK

AMPLIFIER CHASSIS:



These are standard chassis, bases and covers for Public Address equipment and amplifiers, and are normally stock items in two sizes.

M50 Chassis. Has a detachable cover and base.

Size of Base: 15 in. x $8\frac{1}{2}$ in. x 3 in. high.

Height of Cover: $5\frac{1}{2}$ in.

Overall Height of Base and Cover: $8\frac{1}{2}$ in.

M356 Chassis. Has a detachable cover and base.

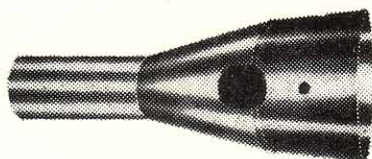
Size of Base: 11 in. x $8\frac{1}{2}$ in. x $2\frac{1}{2}$ in. high.

Height of Cover: $5\frac{1}{2}$ in.

Overall Height of Base and Cover: 8 in.

TERMINAL BOXES:

Many types of heavy gauge terminal boxes are made and supplied to specification. The one illustrated is of 12 gauge steel finished in stoving enamel. The construction is virtually watertight being drip and splash proof.

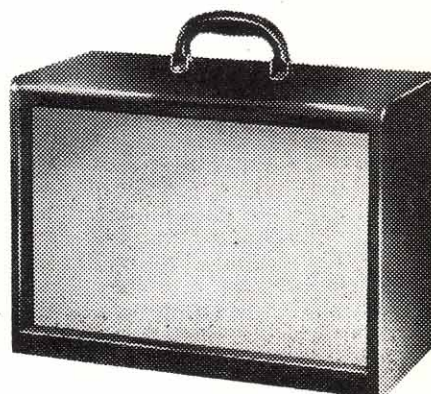


MU-METAL SHIELDS:

The Mu-Metal shield shown is one of many shields manufactured for Cathode Ray tubes. It is annealed in a Trimax designed and built controlled atmosphere furnace to obtain the highest performance figures. Government Departments and Industry are major users of these shields.

CASES:

All types of portable cases are made. The one shown being approximately 16" x $8\frac{1}{2}$ " x $11\frac{1}{2}$ " high. This unit can be supplied with a blank chassis and panel so that special equipment can be mounted, or the case only is available. Other special cases can be supplied to order and your enquiries are welcome.

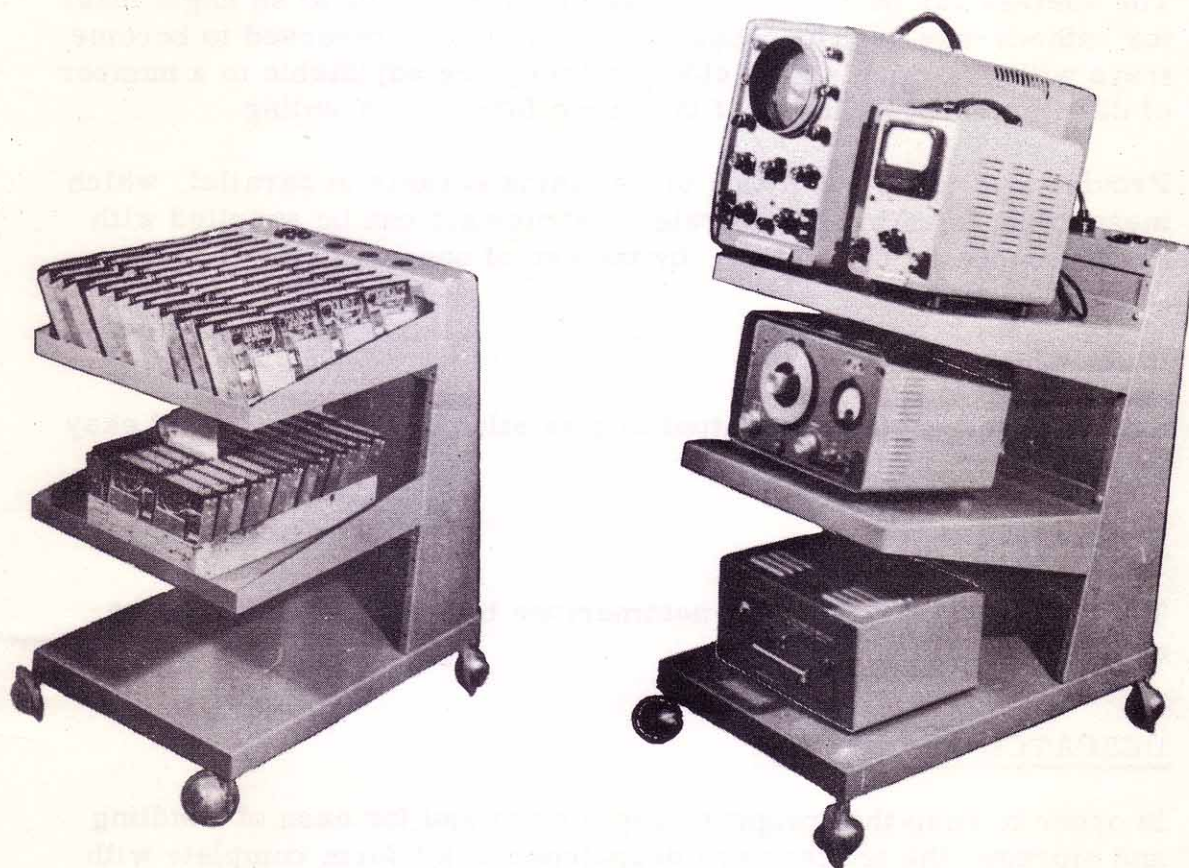


TRIMAX

EQUIPMENT TROLLEY

TYPE

M 924



L M ERICSSON PTY. LTD.
TRIMAX DIVISION

Cnr. CHARLES & WILLIAM STS.
COBURG, N.13
VICTORIA

GENERAL:

This trolley is particularly suitable as a means of mounting heavy laboratory test equipment.

The shelves can be fixed in a horizontal position or at an angle ideal for cathode-ray oscilloscopes, they can also be reversed to become trays with reasonably high sides and they are adjustable to a number of different heights in any of the above forms of mounting.

Provision is made for fitting three mains sockets in parallel, which means that three mains-operated instruments can be supplied with power, when on the trolley, by the use of one extension lead.

CASTORS:

Rubber tyred castors are fitted to give silent, shock-proof and easy mobility.

FINISH:

The stock trolleys are grey hammertone but other colours can be obtained by special order.

DESPATCH & PACKING:

In order to keep the freight to a minimum and for ease of handling and storage, the trolleys are despatched in kit form complete with nuts, bolts and castors for assembly on arrival.

The electrical fittings can be supplied, as an extra, to special order.

POWER TRANSFORMERS - WHOLESALE PRICES Date 1st May, 1965
(Excluding Sales Tax.)
(Note: T.O.V. - Total Order Value, is the total of all items on one order.)

TYPE	T.O.V. £20 & over	T.O.V. under £20	TYPE	T.O.V. £20 & over	T.O.V. under £20
TP-16A	£3.10. 0	£3.14. 9	TP-2821	£1. 4. 6	£1. 6. 3
TP-17A	3.18. 6	4. 3. 9	TP-2827	9.12. 6	10. 5. 3
TP-18A	4. 7. 6	4.13. 3	TP-2985	19. 5. 0	20.10. 9
TP-69B	5. 7. 6	5.14. 9	TP-3073B	15.10. 0	16.10. 9
TP-185A	2.12. 6	2.16. 0	TP-3078	5.17. 6	6. 5. 3
TP-208A	3. 0. 0	3. 4. 0	TP-3099	-.17. 6	-.18. 9
TP-399B-M122	10. 5. 0	10.18. 9	TP-3100	3.15. 0	4. 0. 0
TP-399B-VBA	4.17. 6	5. 4. 0	TP-3138	18.17. 6	20. 2. 9
TP-400A-M122	8. 5. 0	8.16. 0	TP-3146	1. 2. 6	1. 4. 0
TP-400A-VBA	2.17. 6	3. 1. 3	TP-3345	18.15. 0	20. 0. 0
TP-1454A	3.12. 6	3.17. 3	TP-3346	10. 0. 0	10.13. 3
TP-1633A	4. 5. 0	4.10. 9	TP-3395	28.10. 0	
TP-1724	3.15. 0	4. 0. 0	TP-3518	12.12. 6	13. 9. 3
TP-1780	3. 2. 6	3. 6. 9	TP-3569A	4.15. 0	5. 1. 3
TP-1798A	5.17. 6	6. 5. 3	TP-3588	3.15. 0	4. 0. 0
TP-1803	11.10. 0	12. 5. 3	TP-3591	18.15. 0	20. 0. 0
TP-2069A	2. 2. 6	2. 5. 3	TP-3622	8. 5. 0	8.16. 0
TP-2077	5.12. 6	6. 0. 0	TP-3643	3.15. 0	4. 0. 0
TP-2171B	2.10. 0	2.13. 3	TP-3794	72.10. 0	
TP-2259	5. 5. 0	5.12. 0	TP-3828	21.17. 6	
TP-2263A	10.15. 0	11. 9. 3	TP-3862	2. 0. 0	2. 2. 9
TP-2264	10. 5. 0	10.18. 9	TP-3863	4.17. 6	5. 4. 0
TP-2420	2.10. 0	2.13. 3	TP-3980	1.17. 6 -	2. 0. 0
TP-2496	12. 5. 0	13. 1. 3	TP-3981	2. 7. 6	2.10. 9
TP-2499	9.15. 0	10. 8. 0	TP-3982	3. 8. 6 -	3.13. 0
TP-2500	5. 2. 6	5. 9. 3	TP-4300	1. 1. 0	1. 2. 6
TP-2501	9. 5. 0	9.17. 3	TP-4301	1. 7. 6	1. 9. 3
TP-2502	1. 3. 6	1. 5. 0	TP-4302	1.14. 6	1.16. 9
TP-2580	12.15. 0	13.12. 0	TP-4303	1.12. 6	1.14. 9
TP-2656	2.17. 6	3. 1. 3	TP-4304	1. 12. 6	1.14. 9

POWER TRANSFORMERS - WHOLESALE PRICES Date 1st May, 1965.

Excluding Sales Tax

(Note: T.O.V. - Total Order Value, is the total of all items on one order.)

TYPE	T.O.V. £20 & over	T.O.V. under £20	TYPE	T.O.V. £20 & over	T.O.V. under £20
TP-4305	£2. 2. 6	£2. 5. 3	TP-4335	£9. 5. 0	£9.17. 3
TP-4306	2. 2. 6	2. 5. 3	TP-4336	19.10. 0	20.16. 0
TP-4307	2. 3. 6	2. 6. 6	TP-4337	3. 2. 6	3. 6. 9
TP-4308	2. 3. 6	2. 6. 6	TP-4338	4. 1. 6	4. 7. 0
TP-4309	2.11. 6	2.15. 0	TP-4339	-.17. 6	-.18. 9
TP-4310	2.12. 6	2.16. 0	TP-4340	1. 1. 6	1. 3. 0
TP-4311	2.13. 6	2.17. 0	TP-4341	1. 1. 6	1. 3. 0
TP-4312	2.12. 0	2.15. 6	TP-4342	1. 4. 6	1. 6. 3
TP-4313	3. 2. 6	3. 6. 9	TP-4343	1. 4. 6	1. 6. 3
TP-4314	3. 3. 6	3. 7. 9	TP-4344	1. 9. 6	1.11. 6
TP-4315	3. 12. 6	3.17. 3	TP-4345	1.17. 6	2. 0. 0
TP-4316	3.12. 6	3.17. 3	TP-4346	2. 0. 0	2. 2. 9
TP-4317	3. 2. 6	3. 6. 9	TP-4347	1.17. 6	2. 0. 0
TP-4318	3. 8. 6	3.13. 0	TP-4348	1.18. 6	2. 1. 0
TP-4319	3. 8. 0	3.12. 6	TP-4349	2.17. 6	3. 1. 3
TP-4320	3.12. 6	3.17. 3	TP-4350	2.17. 6	3. 1. 3
TP-4321	3.12. 0	3.16. 9	TP-4351	3. 7. 6	3.12. 0
TP-4322	4.12. 6	4.18. 9	TP-4352	7.10. 0	8. 0. 0
TP-4323	5.12. 6	6. 0. 0	TP-4353	2.12. 6	2.16. 0
TP-4324	4.12. 6	4.18. 9	TP-4354	2.17. 6	3. 1. 3
TP-4325	5. 2. 6	5. 9. 3	TP-4355	1.17. 6	2. 0. 0
TP-4326	5.12. 6	6. 0. 0	TP-4356	21.15. 0	
TP-4327	5.12. 6	6. 0. 0	TP-4358	10. 5. 0	10.18. 9
TP-4328	5.17. 6	6. 5. 3	TP-4407	2.17. 6	3. 1. 3
TP-4329	5.12. 6	6. 0. 0	TP-5060	10-15-0	
TP-4330	6. 5. 0	6.13. 3	TP-2256	3-15-6	
TP-4331	8. 2. 6	8.13. 3	TP-2242	1-10-0	
TP-4332	10. 2. 6	10.16. 0	TP-4623	5-17-6	
TP-4333	8. 5. 0	8.16. 0			
TP-4334	8. 5. 0	8.16. 0			

FILTER CHOKES - WHOLESALE PRICES

Date 1st May, 1965

Excluding Sales Tax

(Note: T.O.V. - Total Order Value, is the total of all items on one order.)

TYPE	T.O.V. £20 & over	T.O.V. under £20	TYPE	T.O.V. £20 & over	T.O.V. under £20
TZ-1	£3. 1. 6	£3. 5. 6	TZ-842	£-.13. 6	£-.14. 6
TZ-3	1.12. 6	1.14. 9	TZ-843	-.12. 6	13. 3
TZ-5	-.13. 0	-.14. 0	TZ-844	-.10. 6	-.11. 3
TZ-7	2.15. 0	2.18. 9			
TZ-11	-.14. 6	-.15. 6			
TZ-28	2.12. 6	2.16. 0			
TZ-47	2.10. 0	2.13. 3			
TZ-56	-.19. 6	1. 0. 9			
TZ-57	1.12. 6	1.14. 9			
TZ-63	3.17. 6	4. 2. 9			
TZ-84	2.17. 6	3. 1. 3			
TZ-277	-.15. 6	-.16. 6			
TZ-344	1.15. 0	1.17. 3			
TZ-394	7.10. 0	8. 0. 0			
TZ-460	-.14. 6	-.15. 6			
TZ-461	-.15. 6	-.16. 6			
TZ-462	1. 1. 6	1. 3. 0			
TZ-463	1. 5. 0	1. 6. 9			
TZ-464	1.14. 6	1.16. 9			
TZ-465	1.17. 6	2. 0. 0			
TZ-466	2.10. 0	2.13. 3			
TZ-467	1.18. 6	2. 1. 0			
TZ-469	3. 2. 6	3. 6. 9			
TZ-550	10. 5. 0	10.18. 9			
TZ-610	3.12. 6	3.17. 3			
TZ-673	-.15. 6	-.16. 6			
TZ-694	PRICES ON REQUEST				
TZ-695					
TZ-840	-.17. 6	-.18. 9			
TZ-841	-.14. 6	-.15. 6			

INSTRUMENT TRANSFORMERS - WHOLESALE PRICES Date 1st May, 1965
Excluding Sales Tax.

(Note: T.O.V. - Total Order Value, is the total of all items on one order.)

TYPE	T.O.V. £20 & over	T.O.V. under £20
TC-2	£3.15. 0	£4. 0. 0
TC-15	3. 5. 0	3. 9. 3
TC-16	3. 5. 0	3. 9. 3
TC-125	6. 10. 0	6.18. 9
TC-130	10. 2. 6	10.16. 0
TC-132	6.10. 0	6.18. 9
TC-152	7.10. 0	8. 0. 0
TC-153	7.10. 0	8. 0. 0
TC-154	7.10. 0	8. 0. 0
TC-164	8. 2. 6	8.13. 3
TC-165	8. 2. 6	8.13. 3
TC-166	8. 2. 6	8.13. 3
TC-167	8. 2. 6	8.13. 3
TC-168	8. 2. 6	8.13. 3
TC-169	8. 2. 6	8.13. 3
TC-170	8. 2. 6	8.13. 3
TC-171	9. 2. 6	9.14. 9
TC-172	9. 2. 6	9.14. 9
TC-181	7.10. 0	8. 0. 0

AUDIO TRANSFORMERS - WHOLESALE PRICES

Date 1st May, 1965

Prefix TA and MS

(Excluding Sales Tax)

(Note : T.O.V. - Total Order Value, is the total of all items on one order.)

TYPE	T.O.V. £20 & over	T.O.V. under £20	TYPE	T.O.V. £20 & over	T.O.V. under £20
TA-3	£3.15. 0	£4. 0. 0	TA-914B-M51	£8. 5. 0	£8.16. 0
TA-17	3.15. 0	4. 0. 0	TA-915B-M17	8. 2. 6	8.13. 3
TA-37A	3.12. 6	3.17. 3	TA-915B-M51	8. 5. 0	8.16. 0
TA-47	3.15. 0	4. 0. 0	TA-916B-M17	8. 2. 6	8.13. 3
TA-61	3.15. 0	4. 0. 0	TA-916B-M51	8. 5. 0	8.16. 0
TA-82	3.15. 0	4. 0. 0	TA-917B-M17	8. 2. 6	8.13. 3
TA-101	3.12. 6	3.17. 3	TA-917B-M51	8. 5. 0	8.16. 0
TA-168A	3.12. 6	3.17. 3	TA-931	3.10. 0	3.14. 9
TA-406A	3.12. 6	3.17. 3	MS-944	4.16. 0	5. 2. 6
TA-605	3.15. 0	4. 0. 0	MS-945	4.16. 0	5. 2. 6
TA-636	3.12. 6	3.17. 3	MS-946	4.16. 0	5. 2. 6
TA-710A	3.10. 0	3.14. 9	TA-947	3.10. 0	3.14. 9
TA-731A	3.15. 0	4. 0. 0	TA-948	3.10. 0	3.14. 9
TA-733B	3.10. 0	3.14. 9	MS-977	5. 2. 6	5. 9. 3
TA-763	3.15. 0	4. 0. 0	TA-1076	4. 2. 6	4. 8. 0
TA-770	3.15. 0	4. 0. 0	TA-1094A	4. 5. 0	4.10. 9
TA-793	4. 5. 0	4.10. 9	TA-1103C	4. 2. 6	4. 8. 0
TA-796A	4. 2. 6	4. 8. 0	TA-1104B	4. 2. 6	4. 8. 0
TA-797	4. 2. 6	4. 8. 0	TA-1105A	4. 2. 6	4. 8. 0
TA-833	3.10. 0	3.14. 9	TA-1147-M8	5.10. 0	5.17. 3
TA-835	3.10. 0	3.14. 9	TA-1147-M51	6.10. 0	6.18. 9
MS-837	4.18. 6	5. 5. 0	TA-1588	PRICE ON	REQUEST
MS-860	4.18. 6	5. 5. 0	TA-1693	3.12. 6	3.17. 3
MS-866	4.16. 0	5. 2. 6	TA-1704	PRICE ON	REQUEST
MS-878	4.18. 6	5. 5. 0	TA-1774	3.12. 6	3.17. 3
MS-896	4.16. 0	5. 2. 6	TA-1240	4-12-6	
TA-909	4. 2. 6	4. 8. 0	TA-587	2-12-6	
TA-913B-M17	8. 2. 6	8.13. 3	TA-2032	4-17-6	
TA-913B-M51	8. 5. 0	8.16. 0	TA-673	2-12-6	
TA-914B-M17	8. 2. 6	8.13. 3	TA-2246	9-10-0	
			TA-1823	3-3-0	

MISCELLANEOUS COMPONENTS - WHOLESALE PRICES Date 1st May, 1965
Excluding Sales Tax

(Note: T.O.V. - Total Order Value, is the total of all items on one order.)

TYPE	T.O.V. £20 & over	T.O.V. under £20	TYPE	T.O.V. £20 & over	T.O.V. under £20
P3MS	£-.11. 3	£-.12. 0	M62	£-. -. 10	£-. -. 11
P4MS	-.11. 9	-.12. 6	M176	-. 4. 9	-. 5. 0
P6MS	-.12. 9	-.13. 6	M682	} Price on Application	
P3MA	-.14. 6	-.15. 6	M1058		
P4MA	-.15. 0	-.16. 0	M10	-.15. 0	-.16. 0
P6MA	-.16. 0	-.17. 0	M48	Price on Application	
P3FS	-.19. 3	1. 0. 6	M11	-. -. 6	-. -. 6
P4FS	1. 0. 6	1. 1. 9	m116	Knobs Flange	7-9
P6FS	1. 3. 0	1. 4. 6	p3ms	Seats	5-0
S3F	16/6 -.18. 3	-.19. 6	Alu	FODER HANDLE	3-15-0
S4F	-.19. 6	1. 0. 9			
S6F	1. 2. 0	1. 3. 6			
S3M	-. 9. 0	-. 9. 6			
S4M	-. 9. 6	-.10. 3			
S6M	-.10. 6	-.11. 3			
S3F1	24/- 1. 6. 6	1. 8. 3			
S4F1	1. 7. 9	1. 9. 6			
S6F1	1.10. 3	1.12. 3			
S3M1	-.16. 9	-.17. 9			
S4M1	-.17. 3	-.18. 6			
S6M1	-.18. 3	-.19. 6			
S3F3	3.11. 3	3.16. 0			
S4F3	3.15. 0	4. 0. 0			
S6F3	4. 2. 6	4. 8. 0			
S3M3	1.19. 9	2. 2. 6			
S4M3	2. 1. 3	2. 4. 0			
S6M3	2. 4. 3	2. 7. 3			
M156R	-. 5. 6	-. 5. 9			
M156T	-. 5. 0	-. 5. 3			
M57	-. 3. 6	-. 3. 9			

POWER TRANSFORMERS - TRADE & RETAIL PRICES
Excluding Sales Tax

Date 1st May, 1965

TYPE	TRADE	RETAIL	TYPE	TRADE	RETAIL
TP-16A	£4.13. 3	£5.19. 0	TP-2821	£1.12. 9	£2. 1. 9
TP-17A	5. 4. 9	6.13. 6	TP-2827	12.16. 9	16. 7. 3
TP-18A	5.16. 9	7. 8. 9	TP-2985	25.13. 3	32.14. 6
TP-69B	7. 3. 3	9. 2. 9	TP-3073B	20.13. 3	26. 7. 0
TP-185A	3.10. 0	4. 9. 3	TP-3078	7.16. 9	9.19. 9
TP-208A	4. 0. 0	5. 2. 0	TP-3099	1. 3. 3	1. 9. 9
TP-399B-M122	13.13. 3	17. 8. 6	TP-3100	5. 0. 0	6. 7. 6
TP-399B-VBA	6.10. 0	8. 5. 9	TP-3138	25. 3. 3	32. 1. 9
TP-400A-M122	11. 0. 0	14. 0. 6	TP-3146	1.10. 0	1.18. 3
TP-400A-VBA	3.16. 9	4.17. 9	TP-3345	25. 0. 0	31.17. 6
TP-1454A	4.16. 9	6. 3. 3	TP-3346	13. 6. 9	17. 0. 0
TP-1633A	5.13. 3	7. 4. 6	TP-3395	38. 0. 0	48. 9. 0
TP-1724	5. 0. 0	6. 7. 6	TP-3518	16.16. 9	21. 9. 3
TP-1780	4. 3. 3	5. 6. 3	TP-3569A	6. 6. 9	8. 1. 6
TP-1798A	7.16. 9	9.19. 9	TP-3588	5. 0. 0	6. 7. 6
TP-1803	15. 6. 9	19.11. 0	TP-3591	25. 0. 0	31.17. 6
TP2069A	2.16. 9	3.12. 3	TP-3622	11. 0. 0	14. 0. 6
TP-2077	7.10. 0	9.11. 3	TP-3643	5. 0. 0	6. 7. 6
TP-2171B	3. 6. 9	4. 5. 0	TP-3794	96.13. 3	123. 5. 0
TP-2259	7. 0. 0	8.18. 6	TP-3828	29. 3. 3	37. 3. 9
TP-2263A	14. 6. 9	18. 5. 6	TP-3862	2.13. 3	3. 8. 0
TP-2264	13.13. 3	17. 8. 6	TP-3863	6.10. 0	8. 5. 9
TP-2420	3. 6. 9	4. 5. 0	TP-3980	2.10. 0	3. 3. 9
TP-2496	16. 6. 9	20.16. 6	TP-3981	3. 3. 3	4. 0. 9
TP-2499	13. 0. 0	16.11. 6	TP-3982	4.11. 3	5.16. 6
TP-2500	6.16. 9	8.14. 3	TP-4300	1. 8. 0	1.15. 9
TP-2501	12. 6. 9	15.14. 6	TP-4301	1.16. 9	2. 6. 9
TP-2502	1.11. 3	2. 0. 0	TP-4302	2. 6. 0	2.18. 9
TP-2580	17. 0. 0	21.13. 6	TP-4303	2. 3. 3	2.15. 3
TP-2656	3.16. 9	4.17. 9	TP-4304	2. 3. 3	2.15. 3

POWER TRANSFORMERS - TRADE & RETAIL PRICES
Excluding Sales Tax

Date 1st May, 1965

TYPE	TRADE	RETAIL	TYPE	TRADE	RETAIL
TP-4305	£2.16. 9	£3.12. 3	TP-4335	£12. 6. 9	£15.14. 6
TP-4306	2.16. 9	3.12. 3	TP-4336	26. 0. 0	33. 3. 0
TP-4307	2.18. 0	3.14. 0	TP-4337	4. 3. 3	5. 6. 3
TP-4308	2.18. 0	3.14. 0	TP-4338	5. 8. 9	6.18. 6
TP-4309	3. 8. 9	4. 7. 6	TP-4339	1. 3. 3	1. 9. 9
TP-4310	3.10. 0	4. 9. 3	TP-4340	1. 8. 9	1.16. 6
TP-4311	3.11.3	4.11. 0	TP-4341	1. 8. 9	1.16. 6
TP-4312	3. 9. 3	4. 8. 6	TP-4342	1.12. 9	2. 1. 9
TP-4313	4. 3. 3	5. 6. 3	TP-4343	1.12. 9	2. 1. 9
TP-4314	4. 4. 9	5. 8. 0	TP-4344	1.19. 3	2.10. 3
TP-4315	4.16. 9	6. 3. 3	TP-4345	2.10. 0	3. 3. 9
TP-4316	4.16. 9	6. 3. 3	TP-4346	2.13. 3	3. 8. 0
TP-4317	4. 3. 3	5. 6. 3	TP-4347	2.10. 0	3. 3. 9
TP-4318	4.11. 3	5.16. 6	TP-4348	2.11. 3	3. 5. 6
TP-4319	4.10. 9	5.15. 6	TP-4349	3.16. 9	4.17. 9
TP-4320	4.16. 9	6. 3. 3	TP-4350	3.16. 9	4.17. 9
TP-4321	4.16. 0	6. 2. 6	TP-4351	4.10. 0	5.14. 9
TP-4322	6. 3. 3	7.17. 3	TP-4352	10. 0. 0	12.15. 0
TP-4323	7.10. 0	9.11. 3	TP-4353	3.10. 0	4. 9. 3
TP-4324	6. 3. 3	7.17. 3	TP-4354	3.16. 9	4.17. 9
TP-4325	6.16. 9	8.14. 3	TP-4355	2.10. 0	3. 3. 9
TP-4326	7.10. 0	9.11. 3	TP-4356	29. 0. 0	36.19. 6
TP-4327	7.10. 0	9.11. 3	TP-4358	13.13. 3	17. 8. 6
TP-4328	7.16. 9	9.19. 9	TP-4407	3.16. 9	4.17. 9
TP-4329	7.10. 0	9.11. 3			
TP-4330	8. 6. 9	10.12. 6			
TP-4331	10.16. 9	13.16. 3			
TP-4332	13.10. 0	17. 4. 3			
TP-4333	11. 0. 0	14. 0. 6			
TP-4334	11. 0. 0	14. 0. 6			

FILTER CHOKES - TRADE & RETAIL PRICES
Excluding Sales Tax

Date 1st May, 1965

TYPE	TRADE	RETAIL	TYPE	TRADE	RETAIL
TZ-1	£4. 2. 0	£5. 4. 6	TZ-842	£-.18. 0	£1. 3. 0
TZ-3	2. 3. 3	2.15. 3	TZ-843	-.16. 9	1. 1. 3
TZ-5	-.17. 3	1. 2. 0	TZ-844	-.14. 0	-.17. 9
TZ-7	3.13. 3	4.13. 6			
TZ-11	-.19. 3	1. 4. 9			
TZ-28	3.10. 0	4. 9. 3			
TZ-47	3. 6. 9	4. 5. 0			
TZ-56	1. 6. 0	1.13. 3			
TZ-57	2. 3. 3	2.15. 3			
TZ-63	5. 3. 3	6.11. 9			
TZ-84	3.16. 9	4.17. 9			
TZ-277	1. 0. 9	1. 6. 3			
TZ-344	2. 6. 9	2.19. 6			
TZ-394	10. 0. 0	12.15. 0			
TZ-460	-.19. 3	1. 4. 9			
TZ-461	1. 0. 9	1. 6. 3			
TZ-462	1. 8. 9	1.16. 6			
TZ-463	1.13. 3	2. 2. 6			
TZ-464	2. 6. 0	2.18. 9			
TZ-465	2.10. 0	3. 3. 9			
TZ-466	3. 6. 9	4. 5. 0			
TZ-467	2.11. 3	3. 5. 6			
TZ-469	4. 3. 3	5. 6. 3			
TZ-550	13.13. 3	17. 8. 6			
TZ-610	4.16. 9	6. 3. 3			
TZ-673	1. 0. 9	1. 6. 3			
TZ-694	} PRICES ON REQUEST				
TZ-695					
TZ-840	1. 3. 3	1. 9. 9			
TZ-841	-.19. 3	1. 4. 9			

INSTRUMENT TRANSFORMERS - TRADE & RETAIL PRICES

Date 1st May, 1965

Excluding Sales Tax

TYPE	TRADE	RETAIL
TC-2	£5. 0. 0	£6. 7. 6
TC-15	4. 6. 9	5.10. 6
TC-16	4. 6. 9	5.10. 6
TC-125	8.13. 3	11. 1. 0
TC-130	13.10. 0	17. 4. 3
TC-132	8.13. 3	11. 1. 0
TC-152	10. 0. 0	12.15. 0
TC-153	10. 0. 0	12.15. 0
TC-154	10. 0. 0	12.15. 0
TC-164	10.16. 9	13.16. 3
TC-165	10.16. 9	13.16. 3
TC-166	10.16. 9	13.16. 3
TC-167	10.16. 9	13.16. 3
TC-168	10.16. 9	13.16. 3
TC-169	10.16. 9	13.16. 3
TC-170	10.16. 9	13.16. 3
TC-171	12. 3. 3	15.10. 3
TC-172	12. 3. 3	15.10. 3
TC-181	10. 0. 0	12.15. 0

AUDIO TRANSFORMERS - TRADE & RETAIL PRICES
Prefix TA and MS Excluding Sales Tax

DATE 1st May, 1965

TYPE	TRADE	RETAIL	TYPE	TRADE	RETAIL
TA-3	£5. 0. 0	£6. 7. 6	TA-914B-M51	£11. 0. 0	£14. 0. 6
TA-17	5. 0. 0	6. 7. 6	TA-915B-M17	10.16. 9	13.16. 3
TA-37A	4.16. 9	6. 3. 3	TA-915B-M51	11. 0. 0	14. 0. 6
TA-47	5. 0. 0	6. 7. 6	TA-916B-M17	10.16. 9	13.16. 3
TA-61	5. 0. 0	6. 7. 6	TA-916B-M51	11. 0. 0	14. 0. 6
TA-82	5. 0. 0	6. 7. 6	TA-917B-M17	10.16. 9	13.16. 3
TA-101	4.16. 9	6. 3. 3	TA-917B-M51	11. 0. 0	14. 0. 6
TA-168A	4.16. 9	6. 3. 3	TA-931	4.13. 3	5.19. 0
TA-406A	4.16. 9	6. 3. 3	MS-944	6. 8. 0	8. 3. 3
TA-605	5. 0. 0	6. 7. 6	MS-945	6. 8. 0	8. 3. 3
TA-636	4.16. 9	6. 3. 3	MS-946	6. 8. 0	8. 3. 3
TA-710A	4.13. 3	5.19. 0	TA-947	4.13. 3	5.19. 0
TA-731A	5. 0. 0	6. 7. 6	TA-948	4.13. 3	5.19. 0
TA-733B	4.13. 3	5.19. 0	MS-977	6.16. 9	8.14. 3
TA-763	5. 0. 0	6. 7. 6	TA-1076	5.10. 0	7. 0. 3
TA-770	5. 0. 0	6. 7. 6	TA-1094A	5.13. 3	7. 4. 6
TA-793	5.13. 3	7. 4. 6	TA-1103C	5.10. 0	7. 0. 3
TA-796A	5.10. 0	7. 0. 3	TA-1104B	5.10. 0	7. 0. 3
TA-797	5.10. 0	7. 0. 3	TA-1105A	5.10. 0	7. 0. 3
TA-833	4.13. 3	5.19. 0	TA-1147-M8	7. 6. 9	9. 7. 0
TA-835	4.13. 3	5.19. 0	TA-1147-M51	8.13. 3	11. 1. 0
MS-837	6.11. 3	8. 7. 6	TA-1588	PRICE ON REQUEST	
MS-860	6.11. 3	8. 7. 6	TA-1693	4.16. 9	6. 3. 3
MS-866	6. 8. 0	8. 3. 3	TA-1704	PRICE ON REQUEST	
MS-878	6.11. 3	8. 7. 6	TA-1774	4.16. 9	6. 3. 3
MS-896	6. 8. 0	8. 3. 3			
TA-909	5.10. 0	7. 0. 3			
TA-913B-M17	10.16. 9	13.16. 3			
TA-913B-M51	11. 0. 0	14. 0. 6			
TA-914B-M17	10.16. 9	13.16. 3			

MISCELLANEOUS COMPONENTS - TRADE & RETAIL PRICES Date 1st May, 1965
Excluding Sales Tax

TYPE	TRADE	RETAIL	TYPE	TRADE	RETAIL
P3MS	£-.15. 0	£-.19. 3	M62	£-. 1. 0	£-. 1. 6
P4MS	-.15. 9	1. 0. 0	M176	-. 6. 3	-. 8. 0
P6MS	-.17. 0	1. 1. 9	M682	} Prices on Application	
P3MA	-.19. 3	1. 4. 9	M1058		
P4MA	1. 0. 0	1. 5. 6	M10	1. 0. 0	1. 5. 6
P6MA	1. 1. 3	1. 7. 3	M48	Price on Application	
P3FS	1. 5. 9	1.12. 9	M11	-. -. 8	-. -. 10
P4FS	1. 7. 3	1.14. 9			
P6FS	1.10. 9	1.19. 0			
S3F	1. 4. 3	1.11. 0			
S4F	1. 6. 0	1.13. 3			
S6F	1. 9. 3	1.17. 9			
S3M	-.12. 0	-.15. 3			
S4M	-.12. 9	-.16. 3			
S6M	-.14. 0	-.17. 9			
S3F1	1.15. 3	2. 5. 0			
S4F1	1.17. 0	2. 7. 3			
S6F1	2. 0. 3	2.11. 6			
S3M1	1. 2. 3	1. 8. 6			
S4M1	1. 3. 0	1. 9. 3			
S6M1	1. 4. 3	1.11. 0			
S3F3	4.15. 0	6. 1. 3			
S4F3	5. 0. 0	6. 7. 6			
S6F3	5.10. 0	7. 0. 3			
S3M3	2.13. 0	3. 7. 6			
S4M3	2.15. 0	3.10. 3			
S6M3	2.19. 0	3.15. 3			
M156R	-. 7. 3	-. 9. 3			
M156T	-. 6. 9	-. 8. 6			
M57	-. 4. 9	-. 6. 0			

SUPPLEMENTARY PRICE LIST. CONSUMERS PRICES. May 7, 1965
Excluding Sales Tax. Wholesalers Discount 20%.

SHEETMETAL:

M50 Chassis and Cover	£3.12. 6.
M356 " " "	£3. 8. 6.
M924 Equipment Trolley	£17.10. 0.
M924A " " with power sockets.	£20. 0. 0.

Other sheetmetal products subject to quotation against customer's drawings.

MICROPHONE STANDS:

Table Type - Fixed	£-17. 3.
" " - Adjustable	£3.15. 0.
Floor Type - Round Base	£5.10. 0.
" " - Heavy Tripod Base	£6.12. 6.

AMPLIFIERS AND EQUIPMENT:

Voltage Regulator - S38	£16.10. 0.
" " - S40	£16.10. 0.
" " - S82	£35.10. 0.
Voltage Stabiliser - S116	£175. 0. 0.
Ionisation Tester - G1B	£109. 7. 6.

Other equipment products - prices on request.

AUDIO TRANSFORMERS
Prefix TA and MS
Issued 11th. October, 1971

TRADE
and
RECOMMENDED RETAIL PRICES
Excluding Sales Tax

18th. October, 1971
Supersedes Price List
1st. March, 1970

TYPE	TRADE	RECOMMENDED RETAIL	TYPE	TRADE	RECOMMENDED RETAIL
TA-3	\$14.15	\$17.70	TA-916B-M17	\$28.75	\$35.95
TA-17	14.15	17.70	TA-916B-M1044	32.40	40.50
TA-37A	13.30	16.60	TA-917B-M17	28.75	35.95
TA-47	14.15	17.70	TA-917B-M1044	32.40	40.50
TA-61	14.15	17.70	TA-931	12.60	15.75
TA-82	14.15	17.70	MS-944	17.85	22.30
TA-101	13.30	16.60	MS-945	17.85	22.30
TA-168A	13.30	16.60	MS-946	17.85	22.30
TA-406A	13.30	16.60	TA-947	13.85	17.30
TA-605	14.15	17.70	TA-948	13.85	17.30
TA-636	13.30	16.60	MS-977	19.35	24.20
TA-710A	12.60	15.75	TA-1076	15.35	19.20
TA-731A	13.85	17.30	2.TA-1094A	14.55	18.20
TA-733B	12.60	15.75	TA-1103C	15.35	19.20
TA-763	13.75	17.20	TA-1104B	14.95	18.70
TA-770	14.15	17.70	TA-1105A	16.60	20.75
1.TA-793	14.55	18.20	TA-1147-M8	21.80	27.25
TA-796A	15.35	19.20	TA-1147-M1044	25.00	31.25
TA-797	15.35	19.20	TA-1693	14.55	18.20
TA-833	12.60	15.75	TA-1774	14.55	18.20
TA-835	12.60	15.75	1.TA-793 superseded by TA2252		
MS-837	18.65	23.30	2.TA-1094A superseded by TA2253		
MS-860	18.65	23.30			
MS-866	17.85	22.30	<u>TELEPHONE ISOLATING TRANSFORMERS:</u>		
MS-878	18.65	23.30	TA-1588	37.15	46.40
MS-896	17.85	22.30	TA-1704	45.20	56.50
TA-909	15.35	19.20	TA-1887	53.25	66.55
TA-913B-M17	28.75	35.95	TA-2129	38.75	48.45
TA-913B-M1044	32.40	40.50	TA-2333	38.75	48.45
TA-914B-M17	28.75	35.95	TA-2234	37.15	46.40
TA-914B-M1044	32.40	40.50	TA-2235	37.15	46.40
TA-915B-M17	28.75	35.95	TA-2305	93.60	117.00
TA-915B-M1044	32.40	40.50	TA-2340	37.15	46.40

AUDIO TRANSFORMERS
Issued 11th. October, 1971

TRADE
and
RECOMMENDED RETAIL PRICES
Excluding Sales Tax

18th. October, 1971
Supersedes Price List
1st. March, 1970

MINIATURE RANGE
Stock Types as Listed on Leaflet

<u>Quantity Range</u>	<u>Printed Circuit Mounting</u> <u>Strap Clamp Mounting</u>	<u>M508 Case</u>
1-5	\$4.25	\$6.75
6-10	\$3.75	\$6.25
11-20	\$3.20	\$5.70
21-50	\$2.70	\$5.20
51-100	\$2.10	\$4.65
100 Plus	\$2.05	\$4.55
500 Plus	Prices on Application	