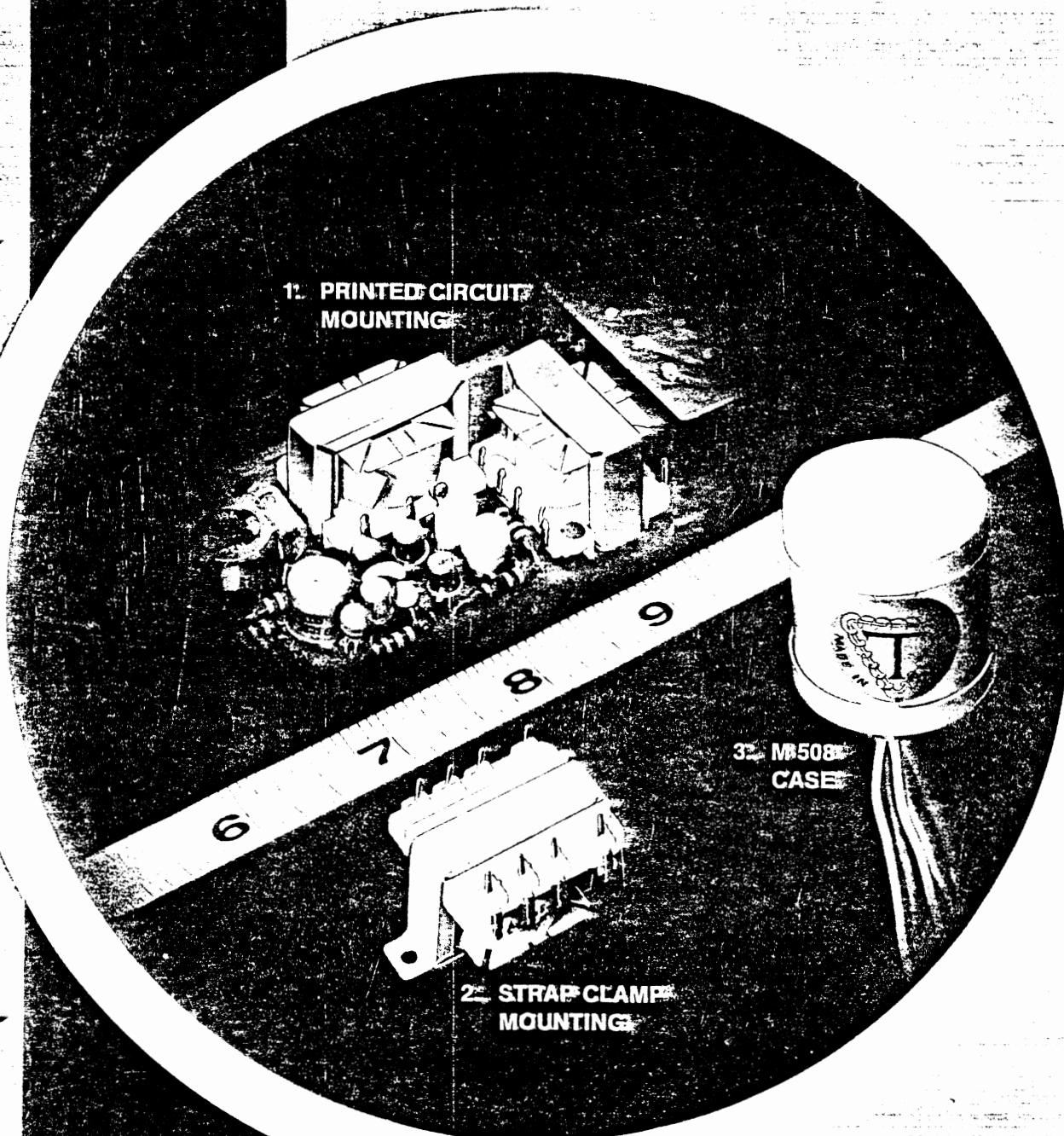


miniature audio transformers



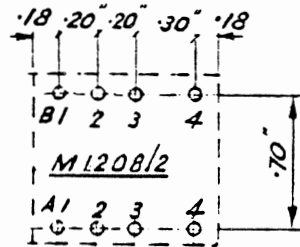
FEATURES

1. Direct P.C. Mounting (without screws) drastically reduces assembly times.
Accommodates less than 1 square inch of Board Area.
Less than 1 inch High.
2. Ideal also for short run or prototype equipment.
Solder Tag Connections.
3. Mu Metal Shielding Case for minimum Noise Pick-up.
Single Hole Mounting.

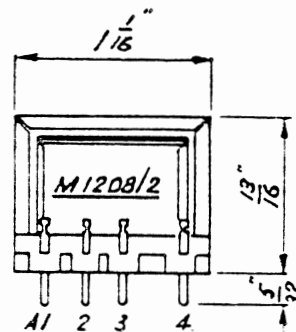
miniature audio transformers

1. PRINTED CIRCUIT MOUNTING

Drilling Details



8 HOLES N°56 DRILL



STOCK RANGE

Printed Circuit and Strap Clamp versions only.

TYPE	P. IMP. ohms	S. IMP. ohms	TYPE	P. IMP. ohms	S. IMP. ohms	TYPE	P. IMP. ohms	S. IMP. ohms
TA2289	600-150	600	TA2481	600 C.T.	50K.	TA2020	200	50K.
TA2317	600	1K.	TA2243A	600	100K. C.T.	TA2267	200	100K.
TA2176	600	2. 4K. C.T.	TA1844	200-50	600	TA2026A	50 C.T.	600
TA1907	600 C.T.	5K. C.T.	TA2377	200	5K.	TA2320	50 C.T.	1K. C.T.
TA2442	600	10K.	TA2337	200-50	10K.	TA1823	50	50K.
TA2343	600	20K.	TA2458	200-50	15K.	TA2402	50 C.T.	100K.
TA2408	600	30K.	TA2354	200	20K.			

Note: Other impedances are available to special order.

GENERAL — ALL TYPES

Frequency Response: ± 1 db. 30Hz. to 20KHz.

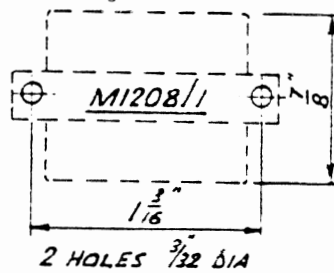
Maximum Level : $+ 6$ dbm.

600-150: Indicates Series or

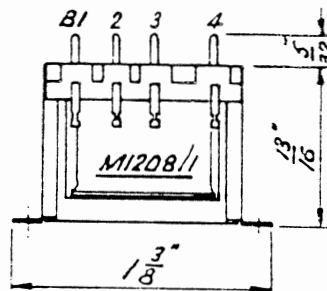
200-50 : Parallel Windings

2. STRAP CLAMP MOUNTING

Drilling Details



2 HOLES $\frac{3}{32}$ DIA



3. M508 CASE

1 1/8" Diameter.

1 1/4" High (above Chassis).

3/16" Diameter Hole for Mounting.



COMPONENT SPECIFICATION

DATE
August '78TYPE
REKP1738 familyGENERAL

The miniature audio transformer range represents a high quality, audio transformer in a small package. Most transformers within the range specified, are available in all three mounting configuration, and are identified by the number following the bar.

/1 represents strap clamp mounting:-

ideal for short run or prototype equipment or where modifications to existing equipment are required. The solder tag connections at the top make it simple to wire.

/2 represents printed circuit mounting:-

allows direct printed circuit mounting without the need for fastening screws, thus reducing assembly times. In addition a transformer occupies an area of less than 1 square inch and has a height of less than 1 inch.

/3 represents single hole metal case:-

used for minimum noise pick-up.

SPECIFICATION

1. Maximum Level + 6dbm.
2. Frequency Response $\pm 1\text{db}$ 30HZ - 20KHZ.
3. Insertion Loss 1db at 1KHZ.
4. Distortion:
 - 1% (+ 25%) measured at 0dbm 30HZ
 - 1.5% (+ 25%) measured at +6dbm 65HZ
5. DC Current

A transformer will carry up to 1mA of unbalanced DC (Referred to 600 ohms winding) without appreciable change of performance.

The maximum unbalanced DC for other impedances may be calculated as follows:-

$$I_Z = 1\text{mA} \times \sqrt{\frac{600}{Z}}$$
 where Z is the IMPEDANCE of the winding concerned.

PRICE

On Application.

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

Yqm/1/1

CODE NUMBER (TRIMAX CODE)	WINDING		IMPEDANCE	TURNS RATIO	RESISTANCE		PIN CONNECTIONS /1 & /2			LOAD COLORS FOR /3			
	PRI. OHMS	SEC. OHMS			PRI. OHMS	SEC. OHMS	PRI.	SEC.	SH.	PRI.	SEC.	SH.	
50 OHM PRIMARY													
REKP173809 (TA2026A)	50	CT	600	1:3.6	6.7	81	A1-A2-A3	B1-B3	-	B-G-Y	R-R		
REKP173815 (TA2320)	50	CT	1K CT	1:4.53	6.5	155	A1-A2-A3	B1-B2-B3	-	B-G-Y	BL-O-R		
REKP173805 (TA1823)	50		50K	1:31.43	5.5	1720	A1-A4	B1-B4	-	B-R	Y-Y		
200 OHM PRIMARY													
REKP173806 (TA1844)	200/50		600	1:1.8	12	45	A1-A2-A3	B1-B4	-	B-Y-R	G-G		
REKP173819 (TA2377)	200	CT	5K	1:5	9.5	288	A1-A2-A3	B1-B2	A4	BL-O-R	B-Y		
REKP173816 (TA2337)	200/50		10K	1:7.1	23.5	753	B1-B2+B3-B4	A1-A3	A4	O-Y+O-Y	R-BL		
REKP173825 (TA2458)	200/50		15K	1:17.3	23.5	1550	B1-B2+B3-B4	A1-A3	A4	O-Y+O-Y	R-BL		
REKP173818 (TA2354)	200		20K	1:10	9.5	1170	B1-B2	A-A3	A4	BL-R	B-Y		
REKP173808 (TA2020)	200		50K	1:15.7	22	1400	A1-A4	B1-B4	-	R-B	Y-Y		

COMPONENT SPECIFICATION

DATE
August '78TYPE
REKP1738 family

COMPONENT SPECIFICATION

DATE
August '78TYPE
REKP1738 family

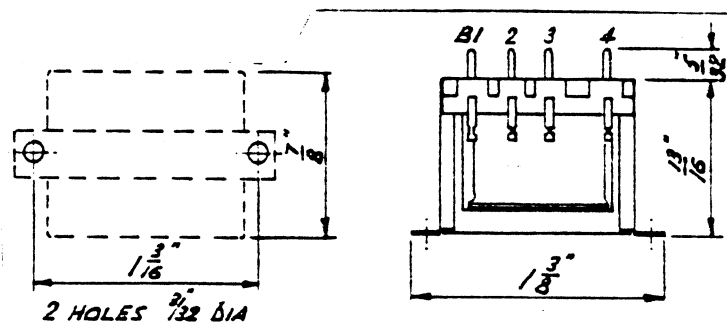
CODE NUMBER (TRIMAX CODE)	WINDING		IMPEDANCE		TURNS		RESISTANCE		PIN CONNECTIONS /1 & /2		SH.	LEAD COLORS FOR /3			SH.
	PRI.		SEC.		RATIO	PRI.	SEC.	PRI.	SEC.	PRI.		SEC.			
	OHMS		OHMS			OHMS	OHMS								
600 OHM PRIMARY															
REKP173813 (TA2289)	600		600/150		1:1	37	51.5	B1-B2	A1-A2+A3-A4	B4		BL-W	BR-R+O-Y	G	
REKP173836 (TA1917)	600/150		600/150		1:1	21	34	A1-A2+A3-A4	B1-B2+B3-B4	LEAD		NOT MANUFACTURED			
REKP173824 (TA2456)	600	CT	600	CT	1:1	17	21	A1-A2-A3	B1-B2-B3	A4		Y-B-Y	R-BL-R	G	
REKP173814 (TA2317)	600		1K		1:1.34	33.2	74	A1-A3	B1-B3	A4		R-BL	Y-B	G	
REKP173827 (TA2523)	600		300/1200		1:1.42	35	67	A1-A4	B1-B2+B3-B4	-		NOT MANUFACTURED			
REKP173810 (TA2176)	600		2.4K	CT	1:2	45	324	A1-A4	B1-B2-B3	-		R-B	BL-O-Y		
REKP173807 (TA1907A)	600	CT	5K	CT	1:3.05	45	585	A1-A2-A3	B1-B2-B3	A4		Y-B-Y	R-BL-R	G	
REKP173822 (TA2442)	600		10K		1:4.09	28.6	637	A1-A3	B1-B2	B4		BL-R	B-Y	G	
REKP173817 (TA2343A)	600		20K		1:5.75	36	1170	A1-A4	B1-B4	-		BL-R	B-Y		
REKP173821 (TA2408)	600		30K		1:7.06	62.6	3100	A1-A4	B1-B4	-		BL-R	B-Y		
REKP173826 (TA2481A)	600	CT	50K		1:9.1	53	3550	A1-A2-A3	B1-B4	A4		B-W-R	BL-Y	G	
MISCELLANEOUS															
REKP173839 (TA2263)	10K		10K		1:1	760	1040	A1-A4	B1-B4	-		B-W	Y-R		
REKP173823 (TA2451)	10K	CT	250K		1:5	196	3370	A1-A2-A3	B1-B3	B4		B-O-B	Y-Y	G	

Ygm/1/2

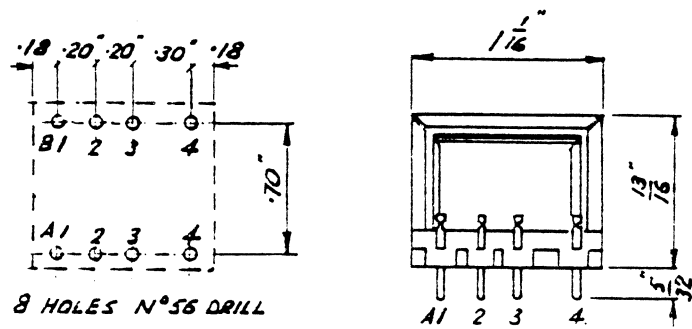
L M ERICSSON PTY. LTD., TRANSMISSION AND INDUSTRIAL
EQUIPMENT DEPARTMENT

PHYSICAL

STRAP CLAMP MOUNTING



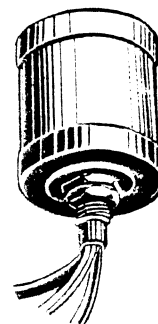
PRINTED CIRCUIT MOUNTING



SINGLE HOLE-MOUNTING MU-METAL CASE

for microscope or Pickup
transformers.

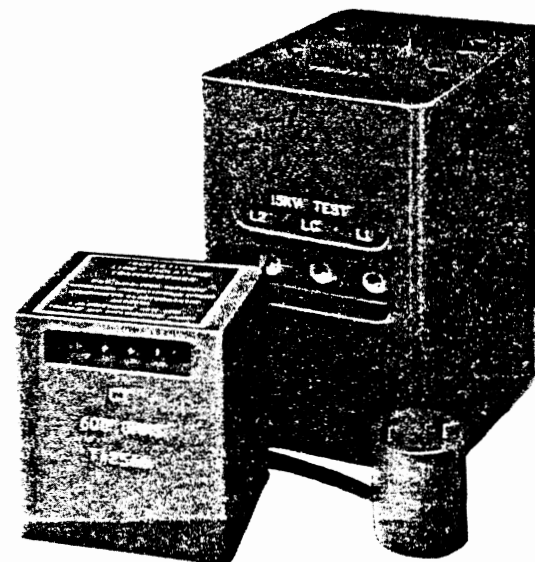
Diam. $1\frac{1}{8}$ in. Height $1\frac{1}{4}$ in. above
chassis.



COLOR CODE FOR LEADS

B	BLACK	G	GREEN
BR	BROWN	BL	BLUE
R	RED	V	VIOLET
O	ORANGE	GR	GREY
Y	YELLOW	W	WHITE

DOUBLE INSULATION MEANS A.P.O. SPECS. 1053 & 1054



The Protective Line Isolating Transformers pictured conform to the requirements of the Australian Post-Office specifications 1053 & 1054, (Private Equipment connected to APO lines).

This group of transformers has been especially developed for the protection of personnel and equipment where dangerously high line voltages can exist.

TYPE	IMPEDANCE (OHMS)		I _{D/C} (MA)	MAX LEVEL	FREQUENCY RESPONSE	BREAKDOWN VOLTAGE	
	PRIMARY	SECONDARY				PRIMARY	SECONDARY
REKP4703003/1	600/150	600/150	50	+20dbm @ 300HZ	200HZ-15KHZ $\pm$ 1db	5KV	5KV
REKP472200/1	600/150	600/150	0	+36dbm @ 300HZ	30HZ-12KHZ $\pm$ 1db	5KV	5KV
REKP4999002/1	2,700	600	1	+20dbm @ 300HZ	300HZ-20KHZ $\pm$ 1db	2KV	4KV
REKP4999003/1	600	600	1	+20dbm @ 300HZ	300HZ-20KHZ $\pm$ 1db	2KV	4KV
REKP4999004/1	600	600CT	1	+20dbm @ 300HZ	300HZ-20KHZ $\pm$ 1db	2KV	4KV
REKP4999009/1	10,000	10,000	4	+20dbm @ 300HZ	50HZ-10KHZ $\pm$ 2db	2KV	4KV
TA2620	600	1,200	1	+20dbm @ 300HZ	300HZ-20KHZ $\pm$ 1db	2KV	4KV
TA2654	50,000	600	1	+20dbm @ 300HZ	200HZ-3.4KHZ $\pm$ 1db	2KV	4KV

L M ERICSSON PTY. LTD.
Signalling, Transmission and Power Systems Division.
Riggall Street, Broadmeadows, Vic., 3047
Telephone: 309 2244 Telex: ERICMEL AA30555

REKP4703003/1
(TA2566)

TRANSMISSION & INDUSTRIAL
EQUIPMENT DEPARTMENT.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
July '78

TYPE REKP4722001/1
(TA2615)

GENERAL

Designed to generally meet APO Specification 943 and to comply with APO Specifications 1053 and 1054.

TA2615 is a protective line Isolating or line matching transformer designed to transmit 17Hz ringing current in addition to the normal frequency range of 30Hz - 12KHz.

ELECTRICAL

The transformer has the following impedances : Line Z : 600 ohm
Equipment Z : 600 ohm

Both windings are terminated as two separate half windings.

Shielding : Electrostatic shield to separate terminal.

Dielectric Strength : 5KV A.C. R.M.S. between main windings, shield and to all mounting inserts.
2KV. A.C. R.M.S. shield to mounting inserts.
500V D.C. between half windings.

Insulating Resistance : Greater than 500 megohms at 500V D.C.

Winding Resistance : Maximum D.C. Resistance
Equipment Winding : 60 ohm
Line Winding : 60 ohm

Maximum Level : + 36dbm @ 300Hz

Operating Loss @ 1KHz : 1db. Maximum

Frequency Response @ 0dbm. : 30Hz. 12KHz. $\pm$ 1db.

Ringing Efficiency : With 30V. 17Hz applied to one winding through a 750 ohm resistor and the other winding terminated in 2000 ohms, the following limits apply :

Maximum Input Current : 45mA. R.M.S.
Maximum Output Current : 20mA. R.M.S.

Balance :
(a) Transverse : Greater than 60db. } up to 12KHz
(b) Longitudinal : Greater than 50db. }

PHYSICAL

Cast in Epoxy Resin.

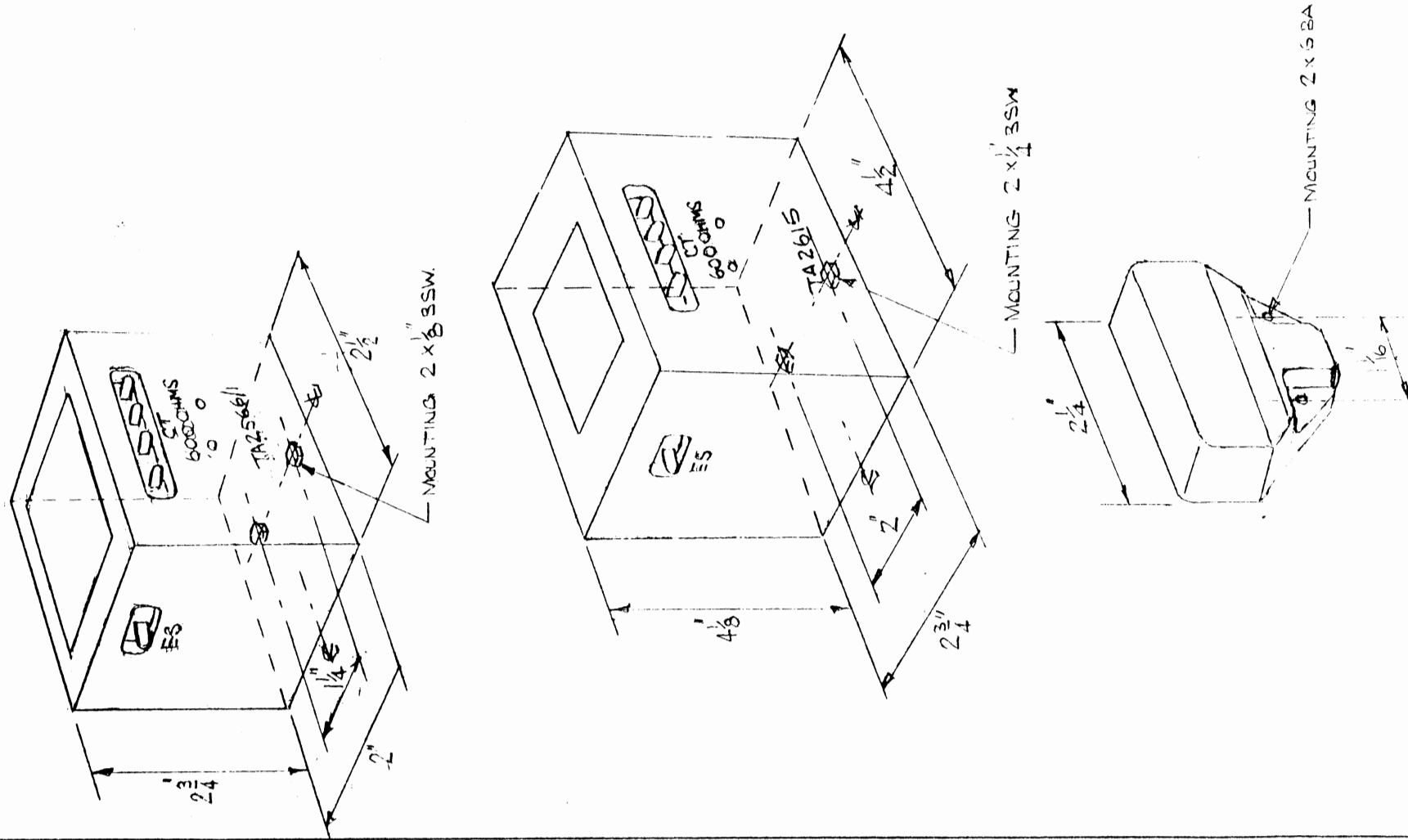
Terminals : Miniature quick connect tabs, Utilux type H1120. Quick connect receptacles Utilux H1126 to suit tabs are supplied with each transformer.
A protective terminal cover (61323) incorporating telephone cord type anchorage is available.
Inserts for mounting this cover on both winding side are provided.

PRICE On Application

DELIVERY On Application

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

PHYSICAL DIMENSIONS : TA2566/1 - - TA2615 - M1508 Cover.



Note : Details given are current at this date for acceptance within 30 days.
After this period confirmation of specifications, price and delivery will be necessary.

GENERAL Protective Line Transformer to A.P.O. Specification 1053 and 1054.

ELECTRICAL

Impedance : Primary 2,700 ohms
Secondary 600 ohms
Frequency Response : ± 1 db. 300Hz. 20KHz.
Unbalance Primary
Current : 4mA. D.C.
Maximum Level : + 20dbm. at 300Hz.
Shielding : Electrostatic Shield between windings internally connected to core.
Breakdown Strength : 4KV. A.C. R.M.S. 50Hz. one minute test between secondary winding to primary winding and mounting insert.
2.5KV. A.C. R.M.S. 50Hz. one minute test between primary winding to mounting insert.

PHYSICAL

Cast in Epoxy Resin.

Termination : Primary - Printed Circuit Pins
16mm Centres.
Secondary - 6" Flying Leads.
Mounting : Two 6BA. Inserts at 16MM Centres.
Centres between primary pins and inserts are 6.2MM.
Dimensions : $1\frac{1}{2}$ " diameter x $1\frac{1}{4}$ " high.

PRICE

On Application.

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
July '78TYPE
REKP4999003/1 (TA2601)GENERALProtective Line Transformer to A.P.O. Specifications
1053 and 1054.ELECTRICAL

Impedance : Primary 600 ohms
Secondary 600 ohms
Insertion Loss : 1 db @ 1KHz.
Frequency Response : $\pm$ 1db 300Hz to 20KHz
Unbalance Primary Current : 4mA. D.C.
Maximum Level : + 20dbm. at 300Hz.
Shielding : Electrostatic Shield between windings
internally connected to core
Breakdown Strength : 4KV. A.C. R.M.S. 50Hz one minute
test between secondary winding to
primary winding and mounting inserts.
2.5KV A.C. R.M.S. 50Hz. one minute
test between primary winding to
mounting inserts.

PHYSICAL

Case in Epoxy Resin.

Termination : Primary - Printed Circuit Pins
0.6" Centres
Secondary - 6" Flying Leads.
Mounting : Two 6BA. inserts at 0.6" centres.
Centres between primary pins and
inserts are 0.2".
Dimensions : 1½" diameter x 1½" high.

PRICE

On Application.

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
July '73TYPE
REKP4999004/1 (TA2679)GENERALProtective Line Transformer to A.P.O. Specifications
1053 and 1054.ELECTRICAL

Impedance : Primary 600 ohms
Secondary 600 ohms CT.

Insertion Loss : 1 db @ 1KHz.

Frequency Response : $\pm$ 1db 300Hz to 20KHz

Unbalance Primary Current : 4mA. D.C.

Maximum Level : + 20dbm. at 300Hz

Shielding : Electrostatic Shield between windings
internally connected to core

Breakdown Strength : 4KV. A.C. R.M.S. 50Hz one minute
test between secondary winding to
primary winding and mounting inserts.
2.5KV A.C. R.M.S. 50Hz. one minute
test between primary winding to
mounting inserts.

PHYSICAL

Case in Epoxy Resin

Termination : Primary - Printed Circuit Pins
0.6" Centres
Secondary - 6" Flying Leads.

Mounting : Two 6BA. inserts at 0.6" centres.
Centres between primary pins and
inserts are 0.2".

Dimensions : 1½" diameter x 1½" high.

PRICE

On Application.

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
July '78

TYPE
REKP4999009/1 (TA2619)

GENERAL

Protective Line Transformer to A.P.O. Specifications 1053 and 1054.

Bridging Transformer to suit 600 ohm line.

ELECTRICAL

Impedance : Primary 10K. ohm.
Secondary 10K. ohm.
Insertion Loss : 1.5db. maximum 0 1KHz.
Frequency Response : $\pm$ 2db. 50Hz. - 10KHz.
Unbalance Primary Current : 0mA. D.C.
Maximum Level : 8V. R.M.S.
Shielding : Electrostatic shield between windings internally connected to core.
Breakdown Strength : 4KV. A.C. R.M.S. 50Hz. one minute test between secondary winding to primary winding and mounting inserts. 2.5KV. A.C. R.M.S. 50Hz. one minute test between primary winding to mounting inserts.

PHYSICAL

Case in Epoxy Resin
Termination : Primary - Printed Circuit Pins
0.6" Centres.
Secondary - 6" Flying Leads.
Mounting : Two 6BA. inserts at 0.6" Centres.
Centres between primary pins and inserts are 0.2".
Dimensions : 1 $\frac{1}{4}$ " diameter x 1 $\frac{1}{4}$ " high.

PRICE

On Application

DELIVERY

On Application

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
Oct. '78TYPE
TA2620GENERALProtective Line Transformer to A.P.O. Specifications
1053 and 1054.ELECTRICAL

Impedance : Primary 600 ohms
Secondary 1200 ohms
Insertion Loss : 1db. at 1KHz.
Frequency Response : + 1db. 300Hz. to 20KHz.
Unbalance Primary Current : 4mA. D.C.
Maximum Level : + 20dbm. at 300Hz.
Shielding : Electrostatic Shield between windings
internally connected to core.
Breakdown Strength : 4KV. A.C. R.M.S. 50Hz. one minute test
between secondary winding to primary
winding and mounting inserts.
2.5KV. A.C. R.M.S. 50Hz. one minute
test between primary winding to
mounting inserts.

PHYSICAL

Cast in Epoxy Resin.
Termination : Primary - Printed Circuit Pins
0.6" Centres.
Secondary - 6" Flying Leads.
Mounting : Two 6BA. Inserts at 0.6" centres.
Centres between primary pins and
Inserts are 0.2".
Dimensions : 1¹/₈" diameter x 1¹/₂" high.

PRICE

On Application .

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
Sept.1973

TYPE
TA2654

GENERAL

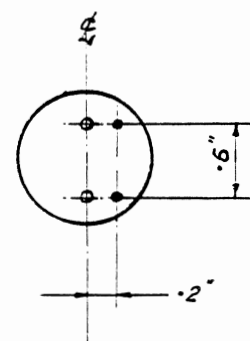
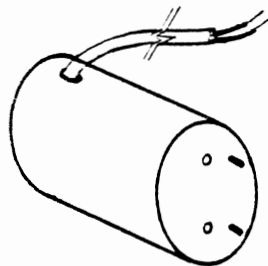
Protective Line Transformer to A.P.O. Specifications 1053 and 1054.

ELECTRICAL

Impedance	:	Primary 60,000 ohms. Secondary 600 ohms.
Insertion Loss	:	1db. @ 1KHz.
Frequency Response	:	± 1db. 200Hz. to 3.4KHz.
Unbalanced Primary Current	:	Nil D.C.
Maximum Level	:	+ 8dbm. at 200Hz.
Shielding	:	Electrostatic Shield between windings internally connected to core.
Breakdown Strength	:	4KV. A.C. R.M.S. 50Hz. one minute test between secondary winding to primary winding and mounting inserts. 2.5KV. A.C. R.M.S. 50Hz. one minute test between primary winding to mounting inserts.

PHYSICAL

Cast in Epoxy Resin.	
Termination	: Primary - Printed Circuit Pins 0.6" Centres. Secondary - 6" Flying Leads.
Mounting	: Two 6BA. inserts at 0.6" centres. Centres between primary pins and inserts are 0.2".
Dimensions	: 1 1/8" diameter x 1 1/4" high.



PRICE

On Application

DELIVERY

On Application

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
Feb. 1978

TYPE
TP5805

GENERAL

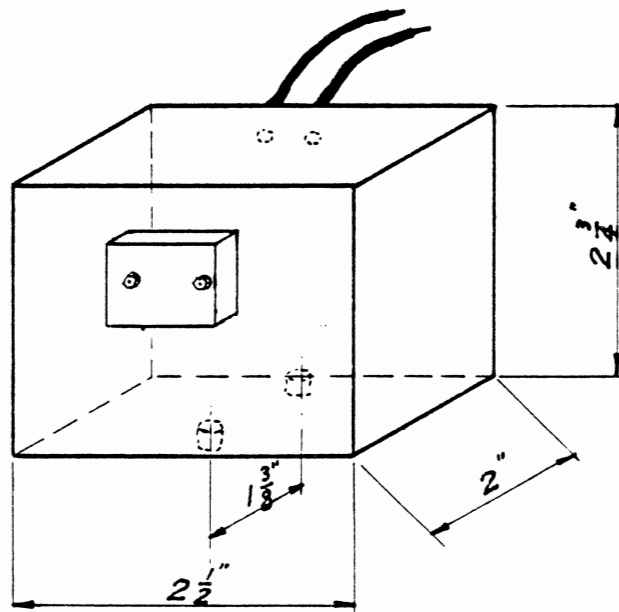
Power Transformer manufactured to comply with
A.P.O. Specification 1053.

ELECTRICAL

Primary: 240V.A.C. 50HZ.
Secondary: 21.2v. .1A. RMS. (30V Peak).
Shield: Electrostatic shield between
Primary and Secondary.
Breakdown: 5Kv RMS. between windings and
mounting inserts, and Primary and
Secondary.

PHYSICAL

Epoxy cast to dimensions shown on Drawing M1461/4.
Termination: Primary: TB1 Connector Block.
Secondary: Flying Leads.



PRICE

On Application.

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
Feb. 1978TYPE
TP5819GENERAL

Power Transformer manufactured to comply with
A.P.O. Specification 1053.

ELECTRICAL

Primary: 240V.A.C. 50HZ.
Secondary: 12V.C.T. .35A. RMS.
Shield: Electostatic shield between Primary
and Secondary winding.
Breakdown: 5Kv R.M.S. between windings and
mounting inserts, and Primary to
Secondary windings.

PHYSICAL

Epoxy cast to dimensions shown on Drawing M1473/4.
Terminations: Primary - TB1 Connector Block.
Secondary - Flying Leads.

PRICE

On Application

DELIVERY

On Application

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

COMPONENT SPECIFICATION

DATE
Feb. 1974

TYPE
REKP4559001/1
(TP5833A)

GENERAL

Power Transformer manufactured to comply with
A.P.O. Specification 1053.

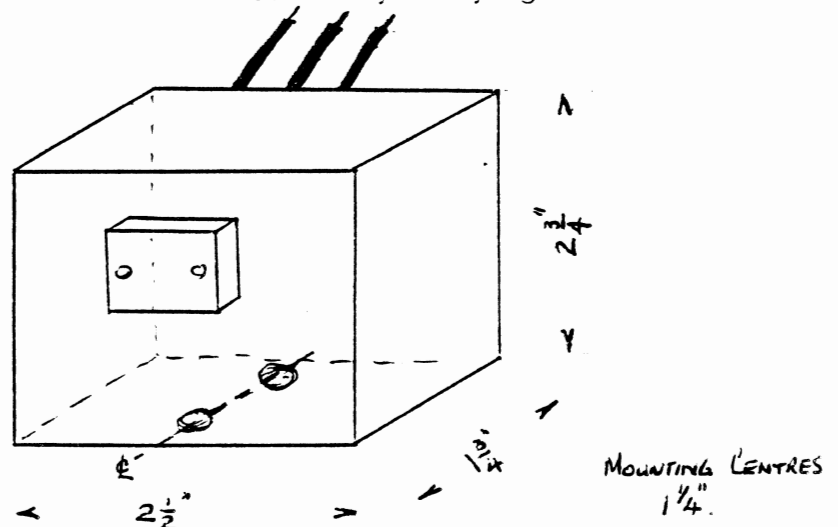
ELECTRICAL

Primary: 240V. A.C. 50HZ
Secondary: 24V CT. 0.5 Amp
Shield: Electrostatic shield between
Primary and Secondary.
Breakdown: 5Kv RMS. between windings and
mounting inserts, and Primary and
Secondary.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

PHYSICAL

Termination: Primary: TBI Connector Block.
Secondary: Flying Leads.



PRICE

On Application.

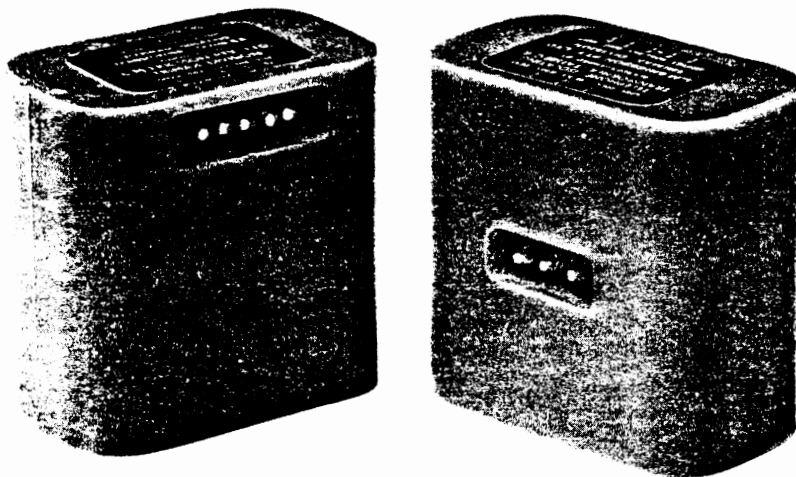
DELIVERY

On Application.

PROTECT YOUR EQUIPMENT AND PERSONNEL with our telephone isolating transformers

The Special Features:

1. 20 KV RMS Breakdown test on Line Winding.
2 KV RMS Breakdown test on Equipment Winding.
2. Epoxy encapsulation.
3. Frequency range. Two main groups are manufactured:—
 - (a) 300 Hz—15 kHz
 - (b) 20 Hz—4.5 kHz plus 17 Hz ringing



Type	Equipment Impedance Ohms	Line Impedance Ohms	Line Winding Proof Test V rms	Insertion Loss 1 kHz	Frequency Response	Construction	Weight
TA1987	600 CT	150 CT	20 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
TA1588A	600 CT	200 CT	20 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
TA2340	600 CT	600 CT	20 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
* TA2618A	600 Split	600 Split	20 KV	1.1 db	20 Hz $\pm$ 0.5 db-3 kHz $\pm$ 1.5 db	M1541	4.4 lb.
* TA2512	600 Split	600 Split	20 KV	0.8 db	20 Hz $\pm$ 0.5 db-4.5 kHz $\pm$ 1.5 db	M1540	6.5 lb

Types marked with an asterisk pass 16 ²/₃ Hz ringing current with efficiencies as prescribed for the APO.

Special designs to cover specific requirements and carrier frequencies are available to special order.

TELEPHONE: 309 2244

CABLES & TELEGRAMS:
ERICMEL MELBOURNE

L M Ericsson
Phy. Ltd.

PLEASE REPLY TO:
P.O. BOX 41
BROADMEADOWS
VICTORIA, 3047

REGISTERED OFFICE: RIGGALL STREET, BROADMEADOWS, VICTORIA

TELEPHONE ISOLATION TRANSFORMERS

This group of transformers has been developed for the protection of personnel and equipment in locations where a dangerously high line voltage can exist as a result of large fault currents, induction from or direct contact with high voltage lines.

The special features of these transformers are:-

1. 20KV RMS Breakdown test (1 minute) on Line Winding.

2KV RMS Breakdown test (1 minute) on Equipment Winding.

Note: A special type - TA2305 - has been developed for insertion in the middle of the line, which has a breakdown test of 20KV on both windings.

2. Epoxy encapsulation giving excellent environmental protection and small physical size.
3. Astatic balanced construction giving a balance of at least 60 db. Both windings are centre tapped or wound as separate halves.
4. Electrostatic shielding with shield connections brought out to two separate terminals and providing means for positive checking of shield connections.
5. Frequency range. Two main groups are manufactured:-
 - (a) 300 Hz - 15 kHz i.e. V.F. and Low carrier Frequency.
 - (b) 20 Hz - 4.5 kHz plus 17 Hz ringing.

The main characteristics of the types in current manufacture are given in the accompanying table. Special types can be designed to order.



Type	Equipment Impedance Ohms	Line Impedance Ohms	Line Winding Proof Test V rms	Insertion Loss 1 kHz	Frequency Response	Construction	Weight
TA1987	600 CT	150 CT	20 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
TA1588A	600 CT	200 CT	20 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
TA2340	600 CT	600 CT	20 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
TA2129A	600 CT	150 CT	25 KV	0.8 db	200 Hz-15 kHz $\pm$ 0.5 db	M1539	4.0 lb.
* TA2618A	600 Split	600 Split	20 KV	1.1 db	20 Hz $\pm$ 0.5 db-3 kHz $\pm$ 1.5 db	M1541	4.4 lb.
* TA2512	600 Split	600 Split	20 KV	0.8 db	20 Hz $\pm$ 0.5 db-4.5 kHz $\pm$ 1.5 db	M1540	6.5 lb
* TA2305	600 CT	600 CT	20 KV both wdgs.	1.1 db	100 Hz-4.5 kHz $\pm$ 1 db	M1542	8.0 lb.

Types marked with an asterisk pass 16 ²/₃ Hz ringing current with efficiencies as prescribed for the APO.

Special designs to cover specific requirements and carrier frequencies are available to special order.

Godkänd-Approved		Scale	STAKO	File	No.	Sheet	
					M1539	1	
Benämning				Title			
				PHYSICAL LAYOUT OF TELEPHONE LINE ISOLATING TRANSFORMER			
Ritningsregler och symboler		Toleranser		Drawing rules and symbols		Tolerances	
Material				Material			
Behandling				Treatment			

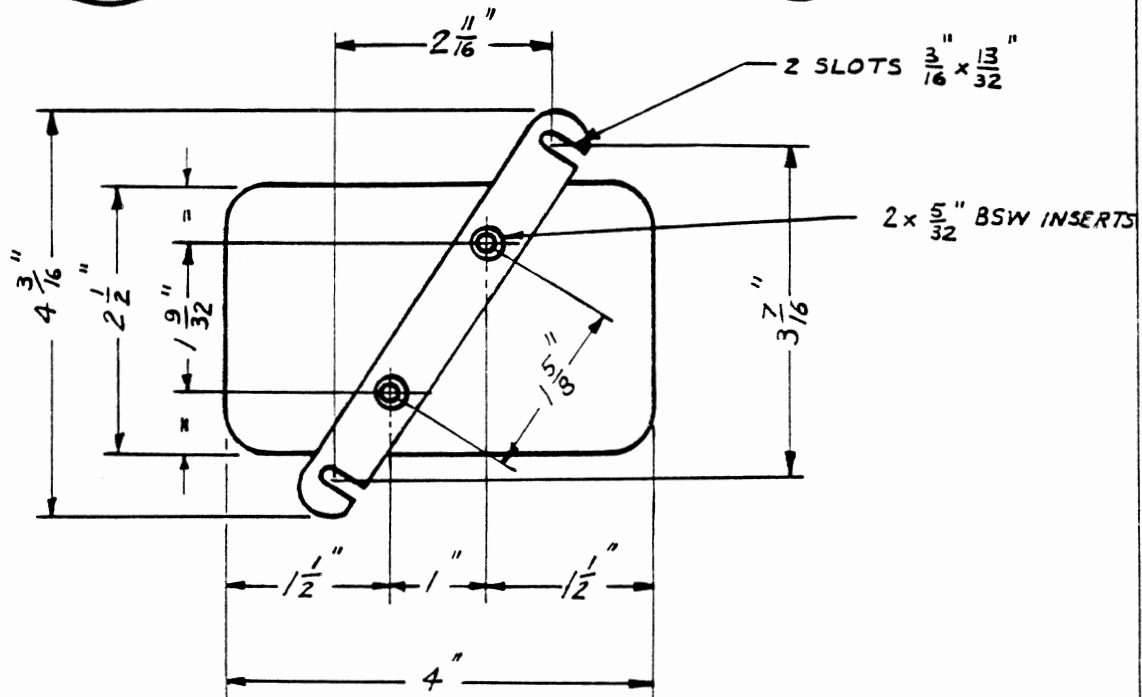
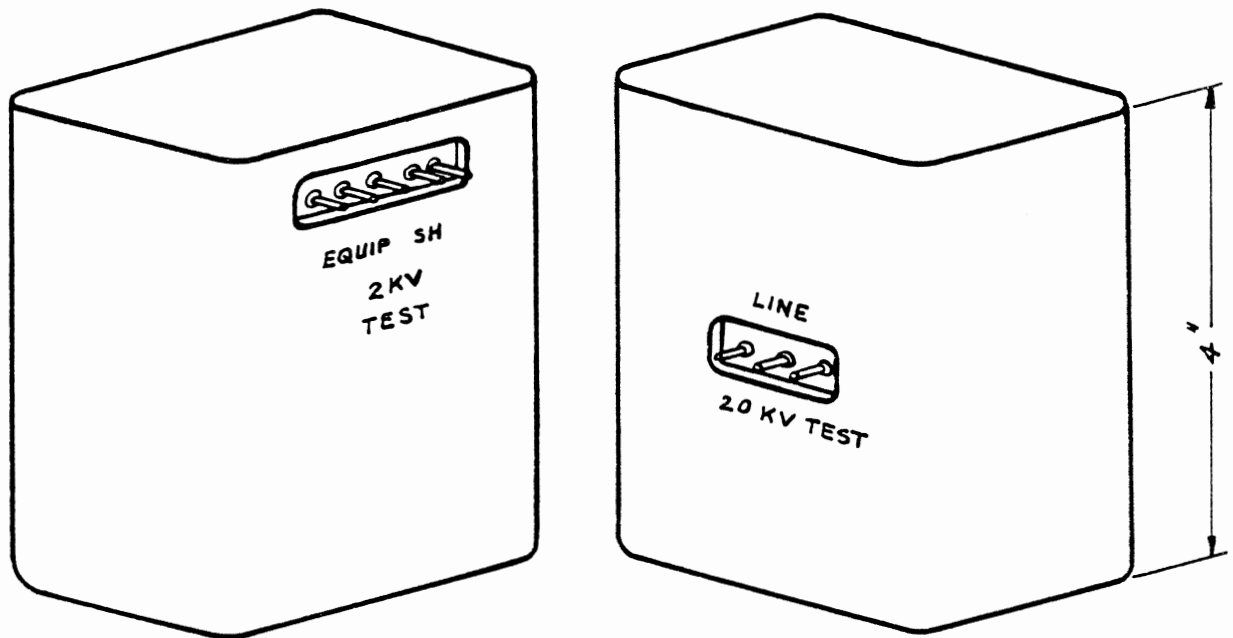
1st angle projection



Uppgjord för-Made for

Ersätter-Replaces

Err.-Rev.



Andra utgåvor

Reproa.

F 3061a/F. A4

No

M1539

Sheet

1



Godkänd-Approved		Scale	STAKO	File	No.	M 1540		Sheet	1
Benämning				Title PHYSICAL LAYOUT OF TELEPHONE LINE ISOLATING TRANSFORMER					
Konstr.		Ritningsregler och symboler		Toleranser		Drawing rules and symbols		Tolerances	
Kop.									
Normgr	Uppgj.								
Mat.gr	Kontr.								

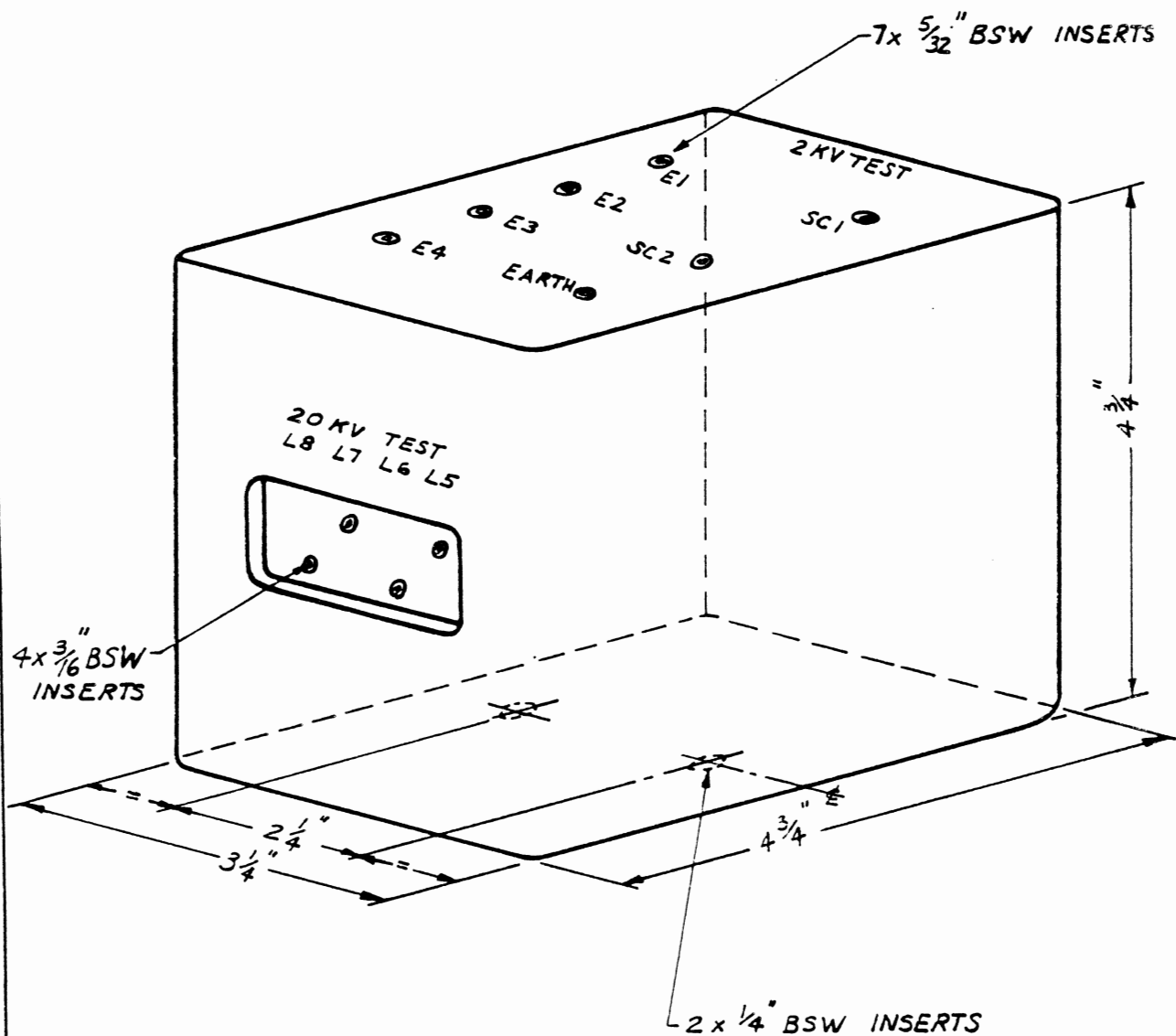
1st angle projection



Uppgjord för-Made for

Erstatter-Replaces

rr.-Rev.



Andra utgåvor

Reprod.

F 3060/F. A4

Godkänd-Approved	Scale	STAKO	File	No.	M1541	Sheet 1
Benämning			Title			
			PHYSICAL LAYOUT OF TELEPHONE LINE ISOLATING TRANSFORMER			
Ritningsregler och symboler		Toleranser		Drawing rules and symbols		Tolerances
Material			Material			
Behandling			Treatment			



Uppgjord för-Made for

Ersätter-Replaces

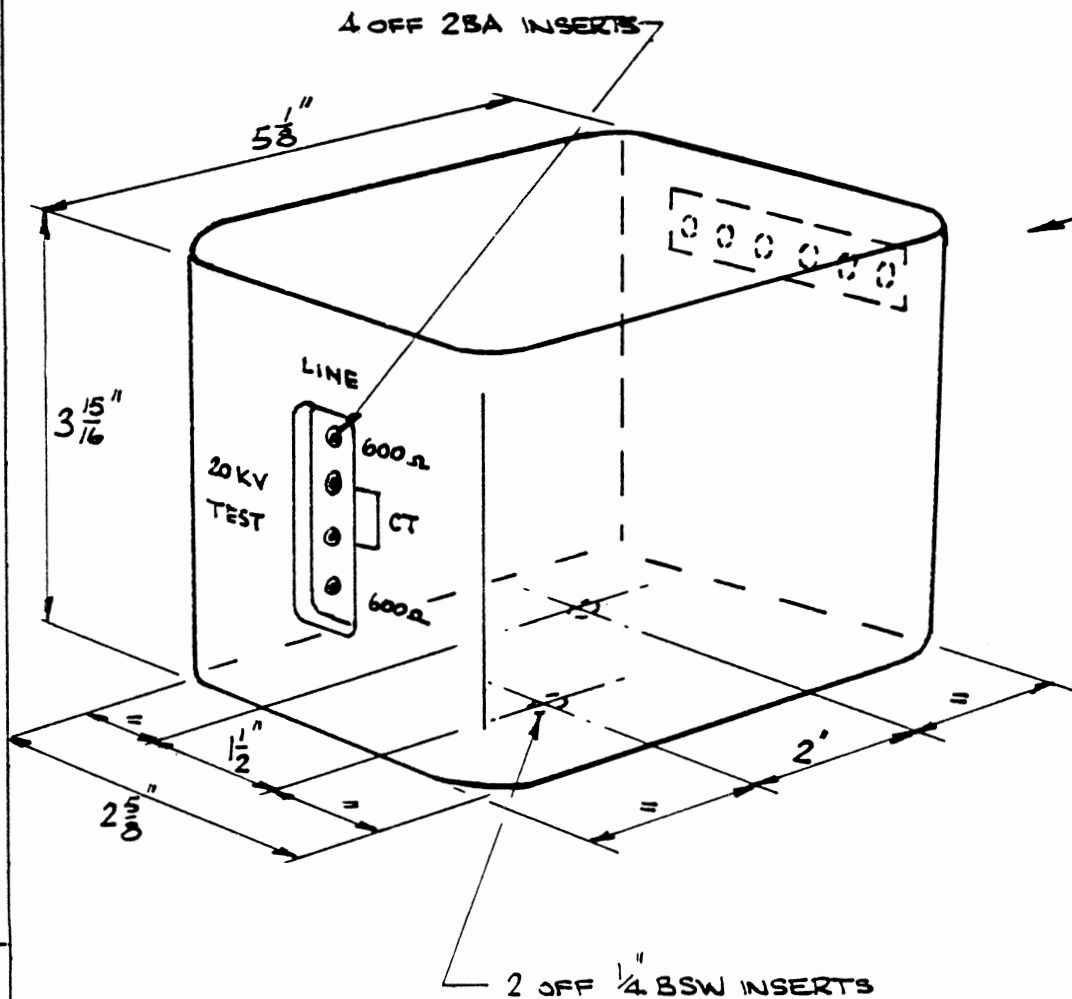
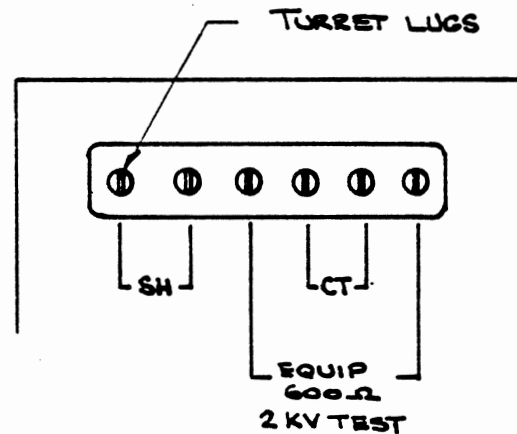
r.-Rev.

Andra utgåvor

Reprod.

F 3061a/F. A4

VIEW A

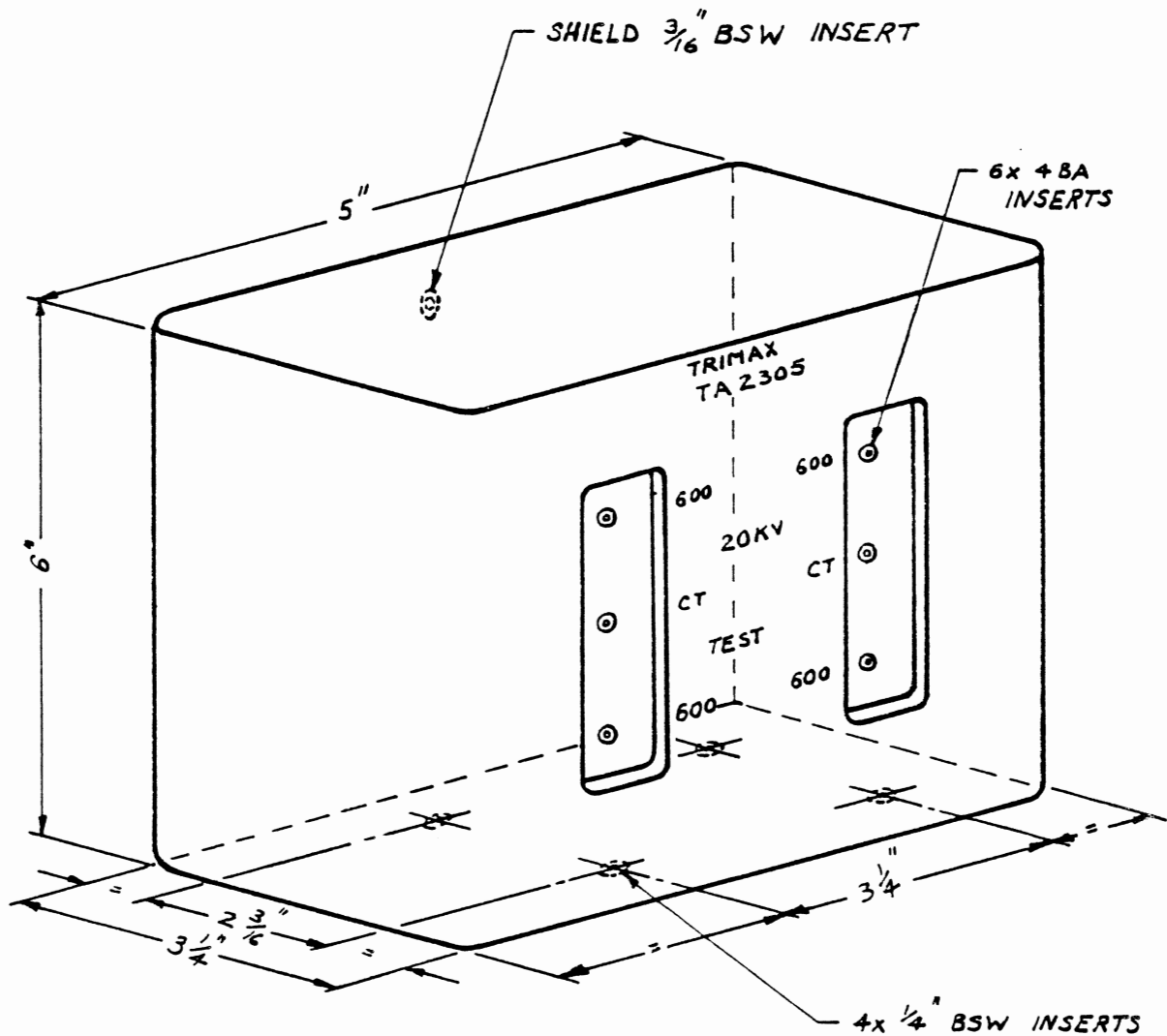


Godkänd-Approved		Scale	STAKO	File	No. M1542	Sheet 1
Benämning				Title PHYSICAL LAYOUT OF TELEPHONE LINE ISOLATING TRANSFORMER		
Ritningsregler och symboler		Toleranser		Drawing rules and symbols		Tolerances
Material				Material		
Behandling				Treatment		

Konstr.	
Kop.	
Normgr.	Uppgi.
Mat.gr.	Kentr.
1st angle projection	
Uppgjord för-Made for	

Ersätter-Replaces

rr.-Rev.



Anara utgåvor

Reprod.

F 3061a/F_A4

No.

Sheet

COMPONENT SPECIFICATION

DATE
1979

TYPE
REKP4999010/1

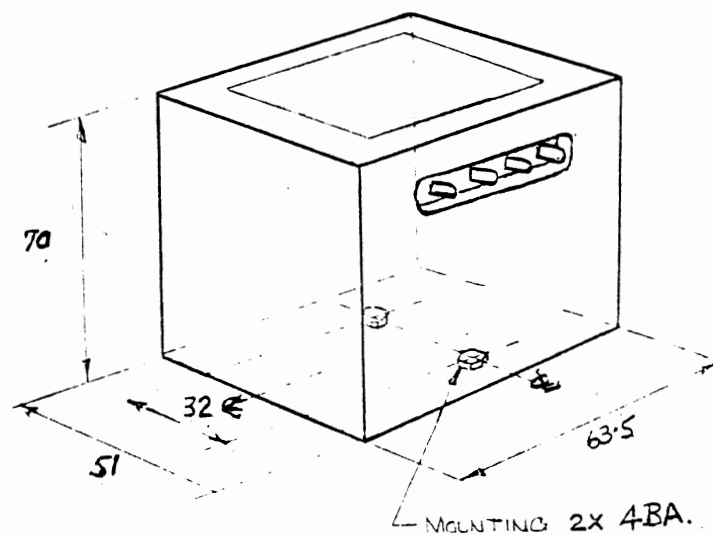
GENERAL

The transformer is designed to provide isolation between cable carrier equipment and overhead or underground cables, from inductive effects of High Tension power in close proximity or faults conditions.

ELECTRICAL

Impedance	:	Equipment winding 135 ohm CT. Line winding 135 ohm split.
Insertion Loss	:	0.5 db max. 300 KHz - 1.5 MHz.
Maximum Level	:	+ 11 dbm @ 300 KHz.
DC Current	:	The transformer is designed to carry 30mA DC of unbalanced current in the line winding.
Shielding	:	An electrostatic screen is fitted between the windings and is brought out to a separate terminal.
Screening Factor	:	10 db.
Breakdown Strength	:	15 Kv Rms 1 minute on the line winding 2 Kv Rms 1 minute on the equipment winding.

PHYSICAL



PRICE

On Application.

DELIVERY

On Application.

NOTE: Details given are current at this date for acceptance within 30 days. After this period confirmation of specifications, price and delivery will be necessary.

L M ERICSSON PTY. LTD.,

SIGNALLING, TRANSMISSION &
POWER SYSTEMS DIVISION.

COMPONENT SPECIFICATION

DATE
1979

TYPE
REKP4999012/1

GENERAL

The transformer is designed to provide isolation between cable carrier equipment and overhead or underground cables, from inductive effects of High Tension power in close proximity or faults conditions.

ELECTRICAL

Impedance : Equipment winding 150 ohm CT.
: Line winding 150 ohm split

Insertion Loss at 60 KHz : 0.3 db max.

Frequency Response : 4-200 KHz $\pm$ 0.25 db.

Maximum Level : + 18 dbm @ 5 KHz.

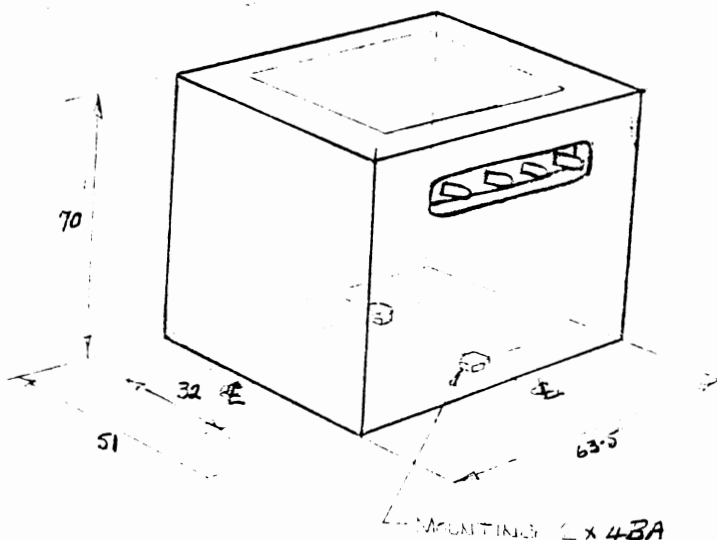
DC Current : The transformer is designed to carry 30 mA DC of unbalanced current in the line winding.

Shielding : An electrostatic screen is fitted between the windings and is brought out to a separate terminal.

Screening Factor : 10 db.

Breakdown Strength : 15 Kv Rms 1 minute on the line winding 2 Kv Rms 1 minute on the equipment winding.

PHYSICAL



PRICE

On Application.

DELIVERY

On Application.

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L M ERICSSON PTY. LTD.,

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POWER SYSTEMS DIVISION.