PERFORMANCE CHARACTERISTICS

1. Operating temperature

These capacitors are designed to operate over the temperature range -40° C to $+70^{\circ}$ C without derating. When derated as specified they may be operated up to $+100^{\circ}$ C.

2. Capacitance tolerance

The standard tolerance is $\pm 20\%$. Tolerances of $\pm 10\%$ and $\pm 5\%$ are available to special order. Capacitance for capacitors up to $1\mu F$ shall be measured at 1 kc/s and 20°C, and for capacitors over $1\mu F$ at 50 c/s and 20°C.

3. Power factor

The power factor shall not exceed 0.01, measured as in paragraph 2.

4. Insulation resistance

After one mirute electrification at 20°C the insulation resistance between terminals shall be greater than 5,000 M $\Omega\mu$ F or 25,000 M Ω , whichever is the less.

After one minute electrification at 20°C the insulation resistance between the shorted terminals and the case shall be greater than 3,000 M Ω .

For both tests the applied voltage shall be 500V. for capacitors rated at 500V. and above at 70°C. For capacitors below this voltage, the rated voltage at 70°C shall be applied.

5. Voltage proof

Capacitors rated up to 5,000 volts at 70°C shall withstand 2.5 times the rated D.C. voltage at 70°C for two seconds. Capacitors rated above 5,000 volts at 70°C shall withstand twice the rated D.C. voltage at 70°C for two seconds. The tests shall be carried out at 20°C.

6. Climatic and tropical exposure tests

The capacitors shall withstand the tests for Category 40/100 H1 as defined in paragraphs 6.11 and 6.14 of Defence Specification DEF-5131.

The AQL normally to be applied for samples taken for this test shall be 4%. Sampling procedure according to Defence Specification DEF-131.

7. Life tests

Capacitors shall be submitted to 1,000 hour life test at the appropriate rated voltage at 100°C. After the test the following conditions shall be satisfied when remeasured at 20°C.

- (a) There shall be no leakage of impregnant.
- (b) The capacitance of each capacitor shall not have changed by more than $7\frac{1}{2}\%$.
- (c) The power factor shall not exceed 0.01.
- (d) The insulation resistance shall be greater than 2,500 M $\Omega\mu F$ or 12,500 M Ω whichever is less.

The AQL normally to be applied for samples taken for this test shall be 4%. Sampling procedure according to Defence Specification DEF-131.

Paragraphs 6 and 7 are in the nature of Type Tests.

WALL FIXING CLIP

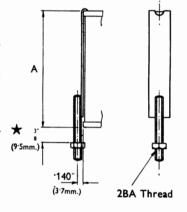
FIXING SLOTS A* × A*

D

F

PLAIN HOOK CLAMP

(2 required per capacitor)



PAPER DIELECTRIC CAPACITORS IN METAL CASES—CASE SIZES

													JIZE.		
T.C.C.		Case Height A		Case Breadth B		Case Depth C		Overall Height E		Distance between terminal centres		Base	Wall	Plain	Spring
Case Code	DEF-5131 Case Size	in. ±ŧ	mm. ±3	in. ± 16	mm. ±1·5	in. ± 16	mm. ±1·5	in. max.	mm. max.	in. ± 1/32	mm. ±0·8	fixing clip	fixing clip	hook	hook clamp (Service)
141 142 143 144 144A 145 146 146 147 147 147 148 149 150 150 151 152 153 153A 153B 154A 154B 155	Cito-D Cito-E Cito-F Cito-G Cito-H Cito-J Cito-J Cito-K Cito-K Cito-M Cito-N Cito-N Cito-N Cito-N Cito-R Cito-S Cito-S Cito-S Cito-S Cito-S Cito-S Cito-S Cito-S Cito-T Ci	2.2.2.4.*******************************	63* 63* 63* 63* 63* 63* 63* 117 117 117 117 117 117 117 117	12 122 111 1223 1223 1333 355 55 55 55 55 55 55 55 55 55 55 55	44 51 48 54 48 48 48 60 60 79 48 67 79 48 86 86 130 130 130	3474-18-18-18-18-18-18-18-18-18-18-18-18-18-	19 19 29 32 32 48 54 54 54 54 48 41 41 79 67 67 97 97	<u></u>	79 79 79 79 87 79 87 79 87 104 136 136 144 162 136 144 162 136	마음마음마음 마음마음 기술 자료마음마을 가료마음마음 1111111111111111111111111111111111	19 19 19 19 25 19 25 19 25 48 19 25 48 19 38 38 48 44 51 51	B1 B2 B3 B4 B4 B5 B6 B7 B7 B8 B5 B9 B10 B8 B11 B11 B11 B12 B12 B12	W14 W15 W16 W17 W17 W19 W20 W20 W21 W18 W22 W22 W23 W21 W24 W24 W24 W25 W25 W25	H H H H H H H H H H H H H H H H H H H	S1 S1 S1 S1 S1 S1 S1 S1 S1 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2
155A	CP10-UA	9	229	5 ਵੇਂ	130		89	10	272	2	51	B13	W26	HC HC	

* $2\frac{1}{2}$ inch (63 mm.) dimension has tolerance $\pm \frac{1}{16}$ inch (± 1.5 mm.)