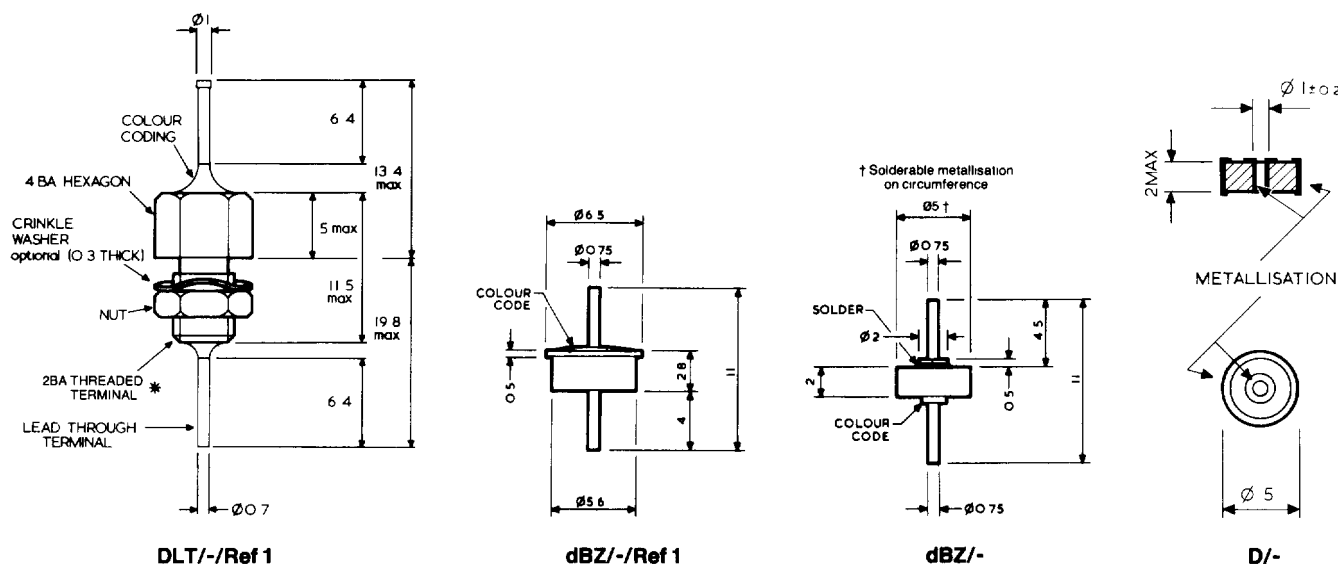


# 100 V.d.c. Filter Capacitors Type: DLT/-, dBZ/-, D/-

## 100 V d.c. Filter Capacitors Types DLT/-, DLT/-/Ref 1, dBZ/-, dBZ/-/Ref 1, D/-

A range of ceramic feedthrough capacitors, offering low pass filtering characteristics between 100 kHz and 1 GHz. The discoidal arrangement ensures radial current flow, resulting in low self-inductance and resonance-free operation.

Both chassis mounting and solder mounting types are available. Solder mounting types dBZ/-/Ref 1 and dBZ/- are assembled with high melting point solder (300°C m.pt.), to provide full compatibility with subsequent soldering operations using 60/40 tin-lead (179°C m.pt.) solder.



Type DLT/- available with wire leads 27mm long  
\* Type DLTM/- also available with M5 x 0.8 thread

Scale 2:1  
Dimensions in mm

## CHARACTERISTICS

| Capacitance (pF)<br>(-20% +80%)                     | Colour Code                                                   | Ceramox®<br>Dielectric Code | Maximum Variation<br>Capacitance with<br>temperature | Dissipation<br>factor | Working Voltage<br>(V d.c.) |        | Typical Insertion Loss<br>measured in 50 ohm systems (dB) |    |                                    |                                        |                                        |
|-----------------------------------------------------|---------------------------------------------------------------|-----------------------------|------------------------------------------------------|-----------------------|-----------------------------|--------|-----------------------------------------------------------|----|------------------------------------|----------------------------------------|----------------------------------------|
|                                                     |                                                               |                             |                                                      |                       | -40 to<br>+85°C             | +100°C | 0.1                                                       | 1  | F(MHz)<br>10                       | 100                                    | 1000                                   |
| 22<br>47<br>100                                     | Black<br>Yellow<br>White                                      | N1400E                      | ± 12%                                                | < 1.0%                | 100                         | 50     | —                                                         | —  | —                                  | 3<br>5<br>8                            | 15<br>20<br>28                         |
| 300<br>470<br>680<br>1000<br>4700<br>10000<br>47000 | Green<br>Orange<br>Grey<br>Brown<br>Red<br>Blue<br>Light Blue | K3000                       | +20%<br>-55%                                         | < 3.0%                | 100                         | 50     | —                                                         | —  | 2<br>3<br>4<br>9<br>20<br>27<br>41 | 18<br>20<br>22<br>27<br>38<br>44<br>45 | 34<br>40<br>40<br>40<br>53<br>63<br>74 |
| 100000                                              | Light Brown                                                   | K6000                       | +30%<br>-80%                                         | < 3.0%                | 50                          | 25     | 2                                                         | 25 | 45                                 | 57                                     | 75                                     |

Insulation resistance: 3000 Mohm min.

D.C., low frequency current rating: 10A d.c. — (Types DLT/-, dBZ/-, dBZ/-/Ref.1)

## MATERIALS

Dielectric: Ceramox® N 1400E  
Ceramox® K3000  
Ceramox® K6000

Bodies: brass to BS 2874 CZ 121  
Finish: DLT/- tin standard, gold optional  
dBZ/-/Ref 1: silver

## QUALIFICATION APPROVALS

BS9075 F006, DEF STAN 59-44/5/2 (Type DLT/-, most values)  
CECC Approvals in progress. Nato stock numbers available on request.

## ORDERING INFORMATION

When ordering please specify Type No. (e.g. DLT/1000/Ref. 1) and capacitance. A crinkle lock washer (BeCuCo with tin finish) is also available for Type DLT/-

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Leaflet No. DLT/7/84