

Double Chokes

SMD

**Rated voltage 42 Vac/80 Vdc**  
**Rated current 200 to 700 mA**  
**Rated inductance 4,7 to 68 mH**

**Construction**

- Current-compensated ring core double choke with ferrite core
- Bifilar winding



**Features**

- Case flame-retardant as per UL 94 V-0
- Suitable for reflow soldering

**Anwendungen**

- Suppression of asymmetrical interference coupled in on lines, whereas data signals up to some MHz can pass unaffectedly
- Use e.g. in telecom applications and RF equipment

**Terminals**

- Tinned

**Marking**

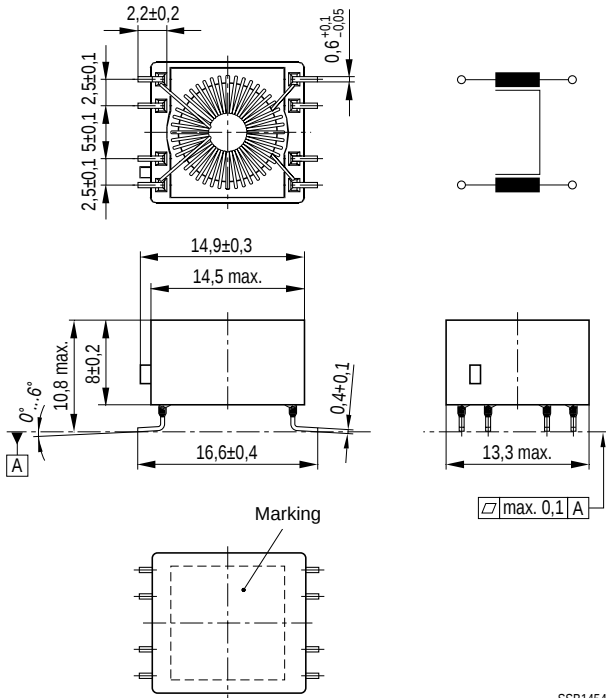
Manufacturer, ordering code,  
date of manufacture (month, year)

**Delivery mode**

Blister tape, reel packing

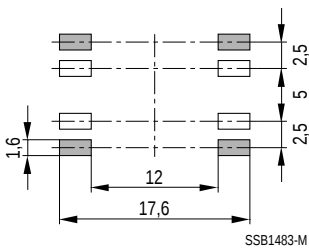
For details on taping, packing and packing units [see page 302](#)

### Dimensional drawing



SSB1454-9

### Layout recommendation



## Double Chokes



## General technical data

|                                    |                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------|
| Rated voltage $V_R$                | 42 Vac (50/60 Hz)<br>80 Vdc                                                                        |
| Rated current $I_R$                | Referred to 50 Hz and 60 °C ambient temperature                                                    |
| Rated inductance $L_R$             | Measured with HP 4275A<br>at 10 kHz and 10 mV<br>(specified per winding)                           |
| Inductance tolerance               | – 30/+ 50 %                                                                                        |
| Inductance decrease $\Delta L/L_0$ | < 10 % at dc magnetic bias with $I_R$                                                              |
| Stray inductance $L_S$             | Measured at 10 kHz and 10 mV                                                                       |
| DC resistance $R_{typ}$            | Typical values, measured at 20 °C ambient temperature                                              |
| Solderability                      | (215 ± 3) °C, (3 ± 0,3) s<br>wetting of soldering area ≥ 95 %<br>in accordance with IEC 60068-2-58 |
| Climatic category                  | 40/125/56 (– 40 °C/+ 125 °C/56 days damp heat test)<br>in accordance with IEC 60068-1              |
| Weight                             | Approx. 2,5 g                                                                                      |

## Characteristics and ordering codes

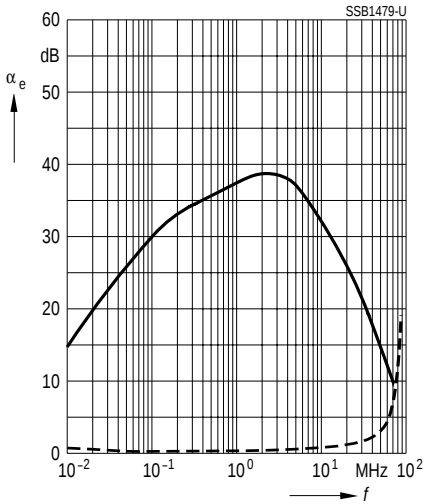
| $L_R$<br>mH | $L_{S, typ}$<br>μH | $I_R$<br>mA | $R_{typ}$<br>Ω | $V_T$<br>Vdc, 2 s | Ordering code     |
|-------------|--------------------|-------------|----------------|-------------------|-------------------|
| 4,7         | 0,9                | 700         | 0,5            | 750               | B82794-C0475-N465 |
| 10          | 1,2                | 600         | 0,7            | 750               | B82794-C0106-N465 |
| 28          | 1,8                | 400         | 1,2            | 750               | B82794-C0286-N465 |
| 47          | 2,0                | 300         | 2,8            | 750               | B82794-C0476-N465 |
| 68          | 3,0                | 200         | 3,3            | 750               | B82794-C0686-N465 |

Insertion loss  $\alpha_e$  (typical values at  $Z = 50 \Omega$ )

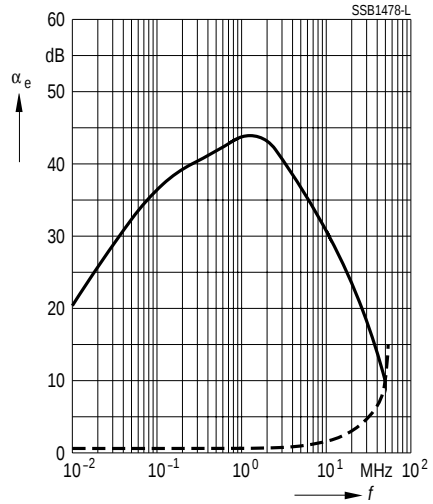
———— asymmetrical, all branches in parallel (common mode)

- - - - - symmetrical (differential mode)

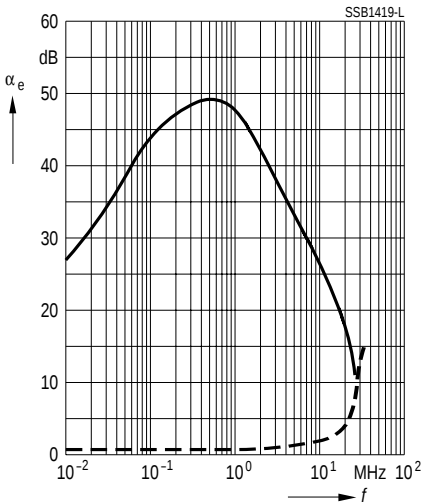
B82794-C0475-N465



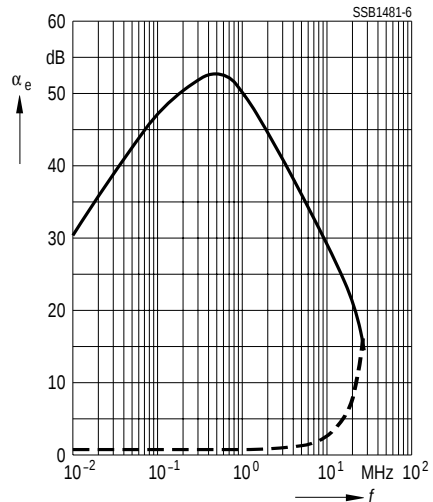
B82794-C0106-N465



B82794-C0286-N465



B82794-C0476-N465



Insertion loss  $\alpha_e$  (typical values at  $Z = 50 \Omega$ )

———— asymmetrical, all branches in parallel (common mode)

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B82794-C0686-N465

