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## Chokes for Data and Signal Lines

B82792-C0

### Double Chokes

**SMD**

Rated voltage 42 Vac/80 Vdc

Rated current 100 to 600 mA

Rated inductance 4,7 to 50 mH



### Construction

- Current-compensated ring core 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
- Telecom interfaces
- ISDN systems

### Terminals

- Tinned

### Marking

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

### Delivery mode

Blister tape, reel packing

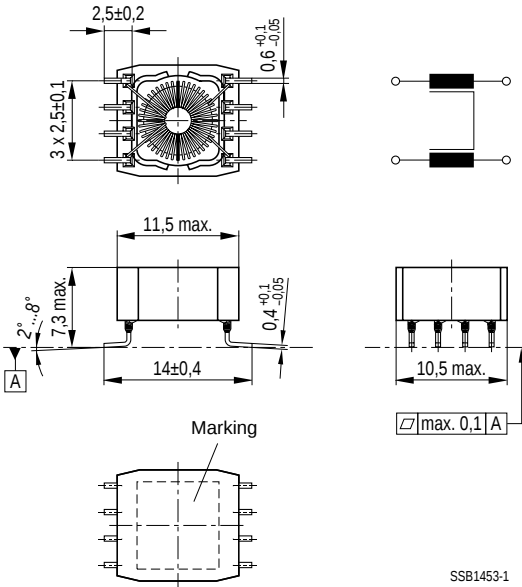
For details on taping, packing and packing units [see page 302](#)



## Double Chokes

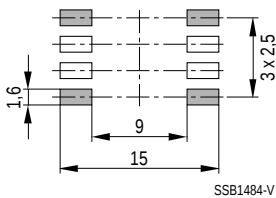
SMD

## Dimensional drawing



SSB1453-1

## Layout recommendation





## Chokes for Data and Signal Lines

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### 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 g                                                                                        |

#### Characteristics and ordering codes

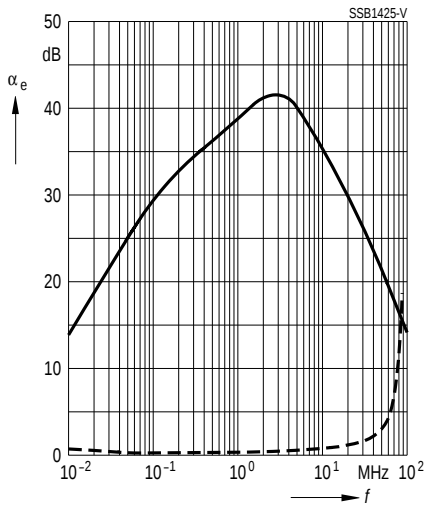
| $L_R$<br>mH | $L_S$ , typ<br>nH | $I_R$<br>mA | $R_{typ}$<br>$\Omega$ | $V_T$<br>Vdc, 2 s | Ordering code     |
|-------------|-------------------|-------------|-----------------------|-------------------|-------------------|
| 4,7         | 500               | 600         | 0,4                   | 1000              | B82792-C0475-N365 |
| 6,8         | 500               | 600         | 0,5                   | 750               | B82792-C0685-N365 |
| 10          | 600               | 500         | 1,1                   | 750               | B82792-C0106-N365 |
| 22          | 800               | 200         | 1,6                   | 750               | B82792-C0226-N365 |
| 33          | 1500              | 100         | 2,0                   | 750               | B82792-C0336-N365 |
| 50          | 1700              | 100         | 2,6                   | 750               | B82792-C0506-N365 |

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

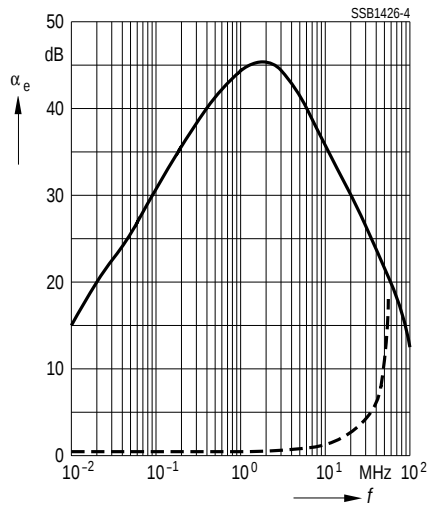
———— asymmetrical, all branches in parallel (common mode)

- - - - - symmetrical (differential mode)

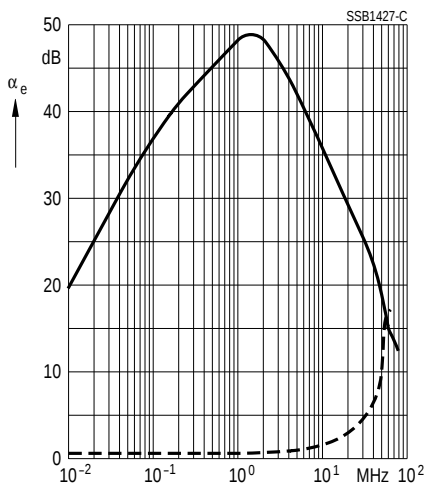
B82792-C0475-N365



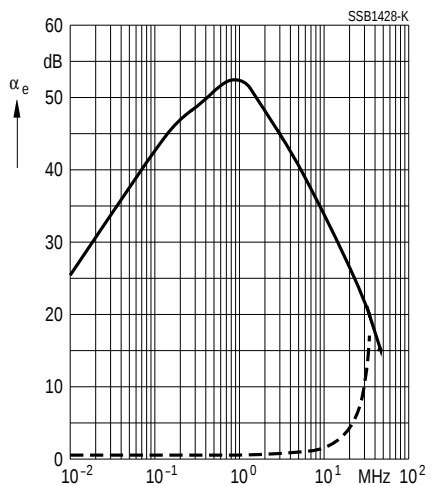
B82792-C0685-N365



B82792-C0106-N365



B82792-C0226-N365

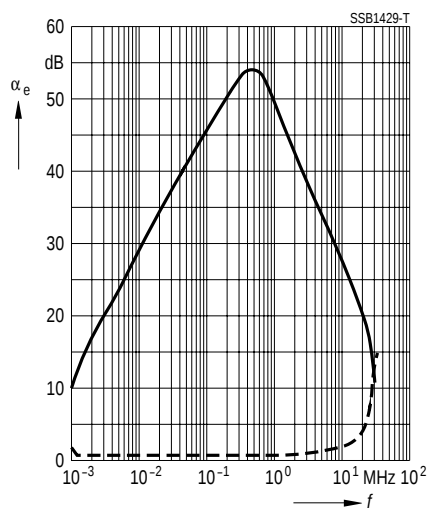


Insertion loss  $\alpha_e$  (typical values at  $Z = 50 \Omega$ )

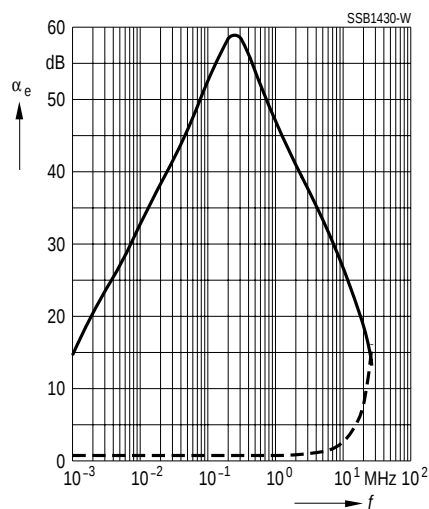
———— asymmetrical, all branches in parallel (common mode)

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B82792-C0336-N365



B82792-C0506-N365





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