EPCOS

SMD

Chokes for Data and Signal Lines CAN Bus Choke, EIA 1812

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Rated voltage 42 Vac/80 Vdc Rated current 100 mA Rated inductance 11 to 51 μ H

Construction

- Current-compensated ring core double choke with ferrite core
- Bifilar winding (B82799-C...)
- Sector winding (B82799-S...)

Features

- High performance
- Case flame-retardant as per UL 94 V-0
- Suitable for reflow soldering and conductive adhesion
- Operation up to 150°C

Applications

■ B82799-C:

Suppression of asymmetrical interference coupled in on lines, whereas data signals up to some MHz can pass unaffectedly B82799-S:

Suppression of asymmetrical and symmetrical interference coupled in on lines. The high-frequency portions of the symmetrical data signal are decreased so far that EMC problems can be significantly reduced

Marking

Manufacturer, inductance value (coded), date of manufacture, coded (year, day of week, calender week)

Delivery mode

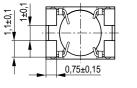
Blister tape, reel packing For details on taping, packing and packing units see page 302



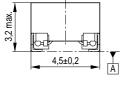
B82799

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Chokes for Data and Signal Lines		B82799
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Dimensional drawing







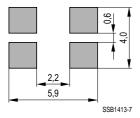


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Layout recommendation



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B82799

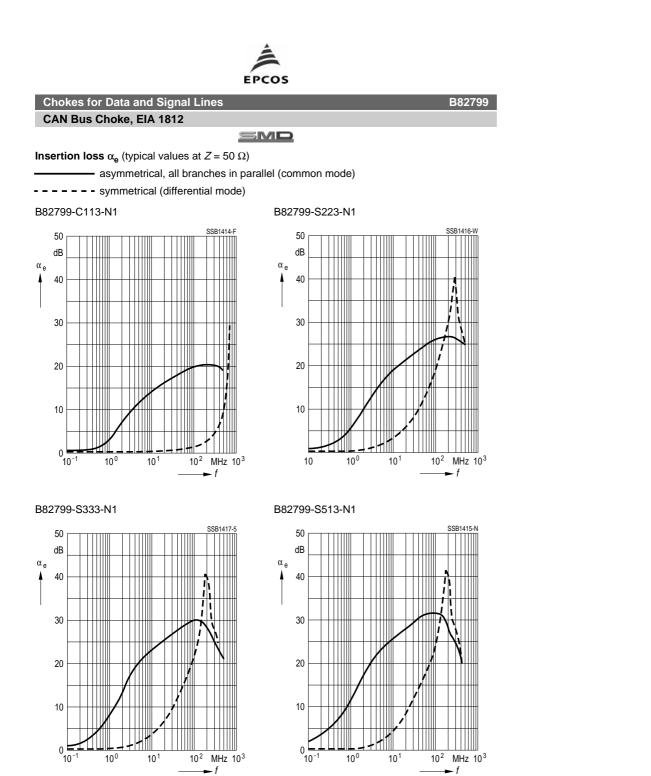
General technical data

Rated voltage V _R	42 Vac (50/60 Hz) 80 Vdc		
Rated current I _R	Referred to 50 Hz and 60 °C ambient temperature		
Rated inductance L _R	Measured with HP 4275A at 100 kHz and 0,1 mA (specified per winding)		
Inductance tolerance	± 30 %		
Inductance decrease $\Delta L/L_0$	< 10 % at dc magnetic bias with $I_{\rm R}$		
Stray inductance L _S	Measured with HP 4275A. Measuring frequency at $L_R \le 11 \ \mu H = 1 \ MHz$, 5 mA $L_R > 11 \ \mu H = 100 \ kHz$, 5 mA		
DC resistance R _{typ}	Typical values, measured at 20 °C ambient temperature		
Solderability	(215 3) $^{\circ}$ C, (3 0,3) s wetting of soldering area \geq 95 % in accordance with IEC 60068-2-58		
Climatic category	40/125/56 (- 40 °C/+ 125 °C/56 days damp heat test) in accordance with EN 60068-1		
Weight	Approx. 0,08 g		

Characteristics and ordering codes

L _R ¹⁾ μΗ	L _{S, typ} nH	I _R mA	R _{typ} mΩ	V _T Vdc, 2 s	Ordering code
11	45	100	150	250	B82799-C113-N1
22	1300	100	200	250	B82799-S223-N1
33	1800	100	250	250	B82799-S333-N1
51	2700	100	300	250	B82799-S513-N1

1) Types up to 2200 μH upon request.



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