

Chokes for Data and Signal Lines

B82792-C2

Quad Chokes



Rated voltage 42 Vac/80 Vdc Rated current 300 to 600 mA Rated inductance 0,47 to 4,7 mH

000476 NOBBB 11700

Construction

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

Features

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

Applications

- 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



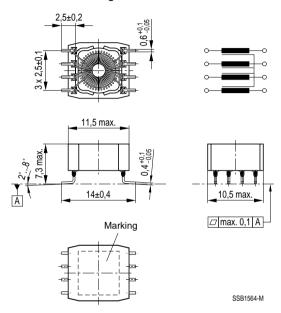


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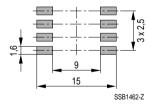
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Dimensional drawing



Layout recommendation





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SMD

General technical data

Rated voltage $V_{\rm R}$	42 Vac (50/60 Hz) 80 Vdc
	00 Vuc
Rated current I _R	Referred to 50 Hz and 60 °C ambient temperature
Rated inductance L_R	Measured with HP 4275A
	at $L \le 1 \text{ mH} = 100 \text{ kHz}, 10 \text{ mV}$
	L > 1 mH = 10 kHz, 10 mV
	(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 $L \le 1 \text{ mH} = 100 \text{ kHz}$, 10 mV
	L > 1 mH = 10 kHz, 10 mV
DC resistance R _{typ}	Typical values, measured at 20 °C ambient temperature
Solderability	(215 3) °C, (3 0,3) s
•	wetting of soldering area ≥ 95 %
	in accordance with IEC 60068-2-58
Climatic category	40/125/56 (- 40 °C/+ 125 °C/56 days damp heat test)
5 ,	in accordance with IEC 60068-1
Weight	Approx. 2 g

Characteristics and ordering codes

L _R mH	L _{S, typ} nH	I _R mA	$R_{typ} \ \Omega$	V _T Vdc, 2 s	Ordering code
0,47	200	600	0,25	750	B82792-C2474-N315
1,0	250	500	0,30	750	B82792-C2105-N365
4,7	450	300	0,80	750	B82792-C2475-N365





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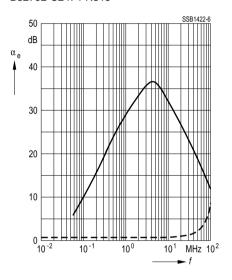
SMD

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

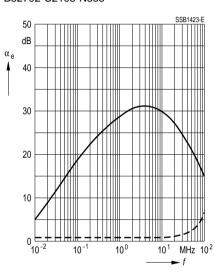
asymmetrical, all branches in parallel (common mode)

- symmetrical (differential mode)

B82792-C2474-N315



B82792-C2105-N365



B82792-C2475-N365

