Chokes for Data and Signal Lines

Series/Type: **B82790C0N3**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B82790C0685N340	B82792C0685N365	2002-07-05	2002-12-31	2003-03-31
B82790C0506N365	B82792C0506N365	2002-07-05	2002-12-31	2003-03-31
B82790C0475N340	B82792C0475N365	2002-07-05	2002-12-31	2003-03-31
B82790C0336N365	B82792C0336N365	2002-07-05	2002-12-31	2003-03-31
B82790C0226N340	B82792C0026N365	2002-07-05	2002-12-31	2003-03-31
B82790C0106N340	B82792C0106N365	2002-07-05	2002-12-31	2003-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Double Chokes

SMD

Rated voltage 42 Vac/80 Vdc
Rated current 100 to 500 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

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

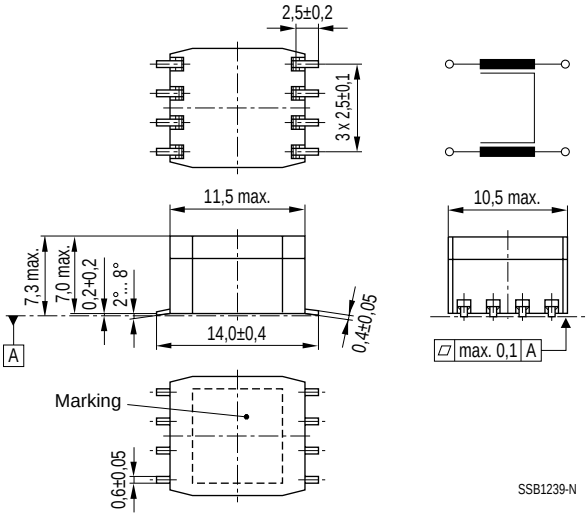
Manufacturer, ordering code,
date of manufacture (month, year)

Delivery mode

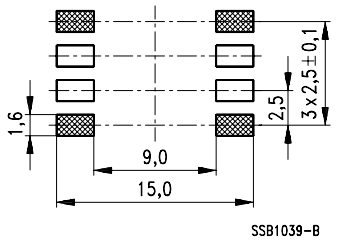
Blister tape, reel packing
For details on taping, packing and packing units see page 302

SMD

Dimensional drawing



Layout recommendation



Double Chokes

SMD

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 10 kHz and 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 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 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) 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} Ω	V_T Vdc, 2 s	Ordering code
4,7	500	500	0,4	1000	B82790-C0475-N340
6,8	500	500	0,5	750	B82790-C0685-N340
10	600	200	1,1	750	B82790-C0106-N340
22	800	100	1,6	750	B82790-C0226-N340
33	1500	100	2,0	750	B82790-C0336-N365
50	1700	100	2,6	750	B82790-C0506-N365

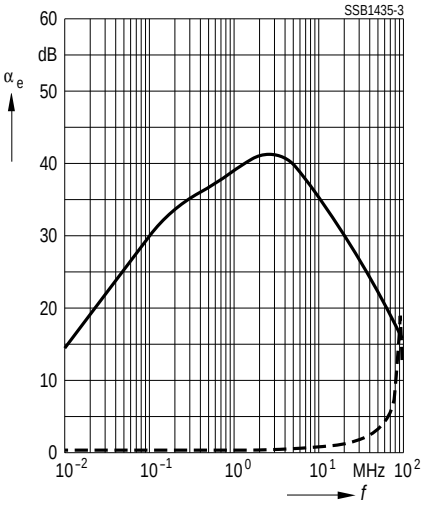
SMD

Insertion loss α_e (typical values at Z = 50 Ω)

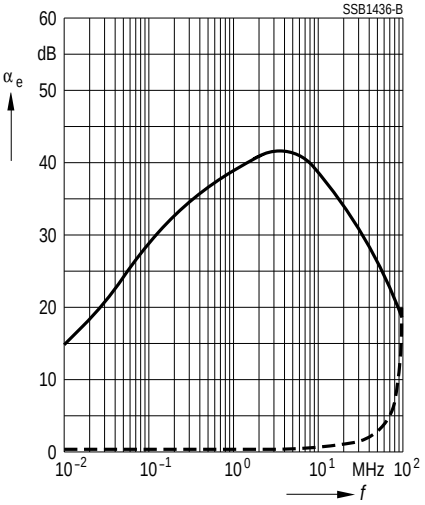
——— asymmetrical, all branches in parallel (common mode)

- - - - - - - symmetrical (differential mode)

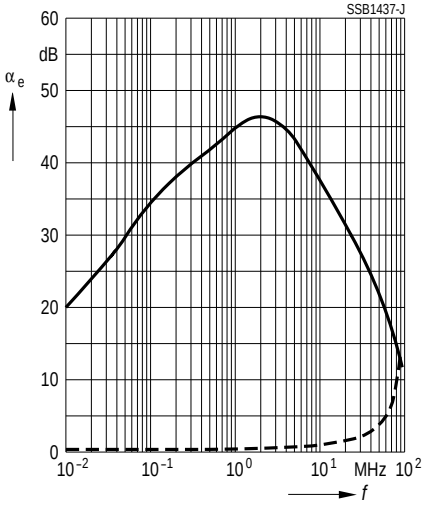
B82790-C0475-N340



B82790-C0685-N340



B82790-C0106-N340



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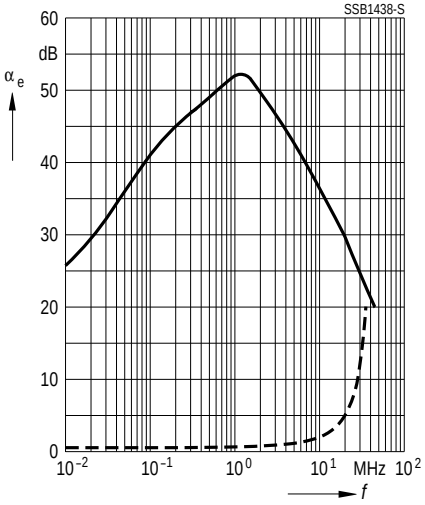


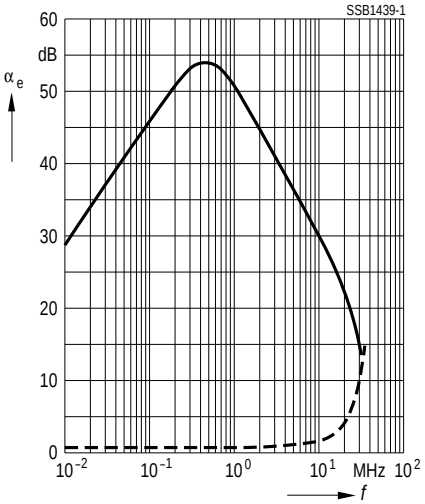
SMD

Insertion loss α_e (typical values at Z = 50 Ω)

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

- - - - - - - symmetrical (differential mode)

B82790-C0336-N365



B82790-C0506-N365