



Inductors

DC/DC converters

Series/Type: B78304B* A003

Date: November 2005

Construction

- E 6.3 ferrite core
- With cover cap
- 6 gullwing terminals

Features

- Very small size
- Low stray inductance, low winding capacitance, low DC resistance

Applications

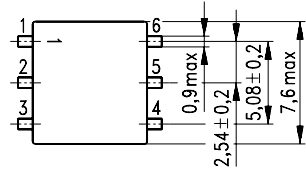
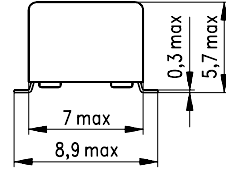
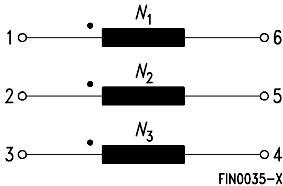
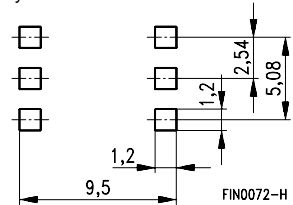
- Pulse transformers
- Broadband transformers
- Drive transformers for power semiconductors
- Low-power DC/DC converters (B78304B1016A003)

Packing

- 16-mm blister tape
- Packing unit: 900 pcs.

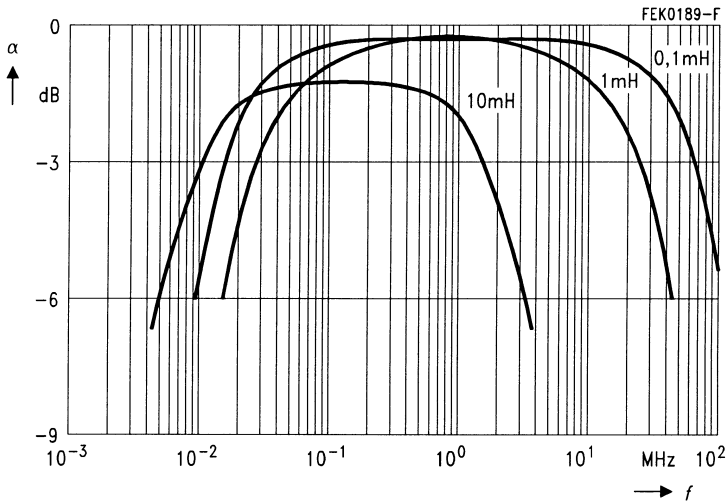
Transformation ratio

See table on next page


Layout recommendation


Technical data

L_1 mH	$N_1 : N_2 : N_3$	L_S ¹⁾ μH	R_{DC} ²⁾ Ω	C_K ³⁾ pF	B_{3dB} MHz	f_r ⁴⁾ MHz	V_P ⁵⁾ VAC	Ordering code
$0.1 \pm 55\%$	1:1:1	0.3	< 0.2	15	0.05 ... 60	≈ 9.0	500	B78304B1030A003
$1.0 \pm 55\%$	1:1:1	1.0	< 0.9	30	0.03 ... 23	≈ 4.0	500	B78304B1031A003
$10.0 \pm 55\%$	1:1:1	4.0	< 6.0	80	0.01 ... 1.6	≈ 0.2	500	B78304B1032A003
$4.3 \pm 55\%$	1: 0.21:0.21	20.0	< 6.0	—	—	> 0.6	500	B78304B1016A003

Attenuation versus frequency


- 1) Measured on 1–6, all other windings short-circuited
- 2) Measured on 1–6
- 3) Capacitance winding : winding, measured 1–2
- 4) Resonance frequency of primary winding (1–6)
- 5) Voltage strength winding : winding (50 Hz, 1 s)

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