



Inductive Ferrite Components

ISDN Transformers
 S_0 Interface Modules

Data Sheet



<http://www.epcos.com>

S₀ Interface Modules

Construction

- Two S₀ interface transformers (transmitter/receiver) in one case
- Additional quad chokes

Application

- NT, peripheral devices (telephone, fax, modems)
- For all leading semiconductor manufacturers

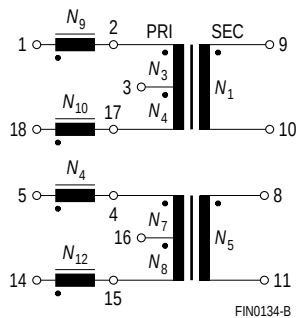
Features

- Low space due to compact construction
- Low logistic effort
- Simple and fast assembly

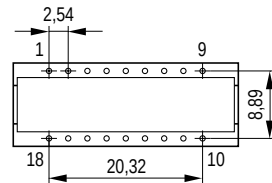
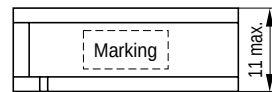
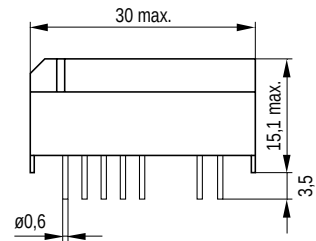
Packing

- Stick magazine
- Packing unit: 2006 pcs.

Layout



FIN0134-B



FIN0131-D

Technical data

(electrical specifications at 25 °C, operating temperature 0 to 70 °C)

Ordering code		B78475-P1560-A2
Turn ratio (± 1 %)	N3 : N4 : N1	1 : 1 : 4
	N7 : N8 : N5	1 : 1 : 4
	N9 : N10 : N11 : N12	1 : 1 : 1 : 1
L _H (min)	[mH]	30
Choke L (min)	[mH]	5,0
L _S (max)	[μH]	4,0
Choke L _S (max)	[μH]	0,6
C _K (max)	[pF]	120
R _{CuN} (typ.)	[Ω]	1,6
R _{CuIC} (typ.)	[Ω]	5,0
R _{DC} (max)	[Ω]	1,3
Δ I _{DC}	[mA]	3,0
HIPOT	[V _{rms}]	1500

Construction

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Application

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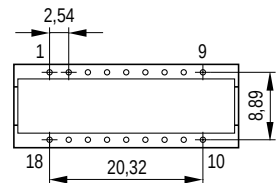
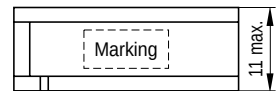
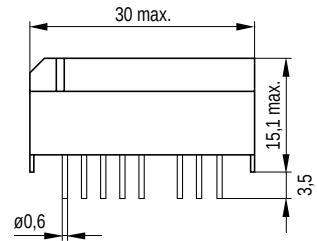
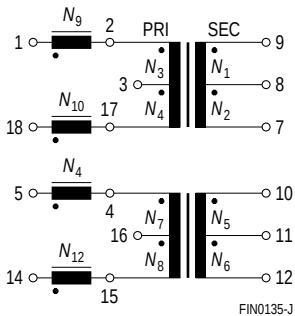
Features

- Low space due to compact construction
- Low logistic effort
- Simple and fast assembly

Packing

- Stick magazine
- Packing unit: 2006 pcs.

Layout



FIN0132-L

Technical data

(electrical specifications at 25 °C, operating temperature 0 to 70 °C)

Ordering code		B78475-P1561-A2	B78475-P1562-A2	B78475-P1563-A2
Turn ratio ($\pm 1\%$)	N3:N4:N1:N2	1 : 1 : 2,5 : 2,5	1 : 1 : 2 : 2	1 : 1 : 1 : 1
	N7:N8:N5:N6	1 : 1 : 2,5 : 2,5	1 : 1 : 2 : 2	1 : 1 : 1 : 1
	N9:N10:N11:N12	1 : 1 : 1 : 1	1 : 1 : 1 : 1	1 : 1 : 1 : 1
L_H (min)	[mH]	30	30	30
Choke L (min)	[mH]	5,0	5,0	5,0
L_S (max)	[μ H]	5,0	5,0	5,0
Choke L_S (max)	[μ H]	0,5	0,6	0,6
C_K (max)	[pF]	150	150	150
R_{CuN} (typ.)	[Ω]	1,6	1,4	1,6
R_{CuIC} (typ.)	[Ω]	6,0	4,6	1,6
R_{DC} (max)	[Ω]	1,1	1,1	1,1
ΔI_{DC}	[mA]	5,0	5,0	5,0
HIPOT	[V _{rms}]	1500	2000	1500

Construction

- Two S₀ interface transformers (transmitter/receiver) in one case

Application

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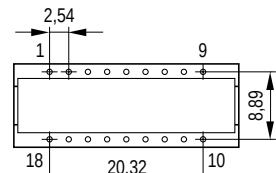
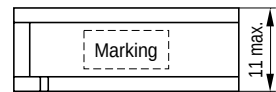
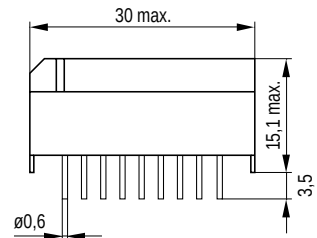
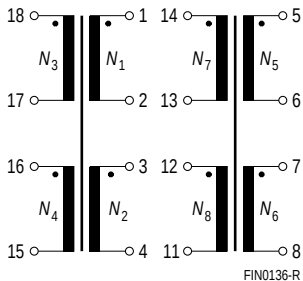
Features

- Low space due to compact construction
- Low logistic effort
- Simple and fast assembly

Packing

- Stick magazine
- Packing unit: 2006 pcs.

Layout



FIN0133-T

Technical data (electrical specifications at 25 °C, operating temperature 0 to 70 °C)

Ordering code		B78475-P1564-A2	B78475-P1565-A2
Turn ratio (± 1 %)	N1 : N 2 : N3 : N4 N5 : N 6 : N7 : N8	1 : 1 : 2,5 : 2,5 1 : 1 : 2,5 : 2,5	1 : 1 : 2 : 2 1 : 1 : 2 : 2
L _H (min)	[mH]	30	30
L _S (max)	[μH]	3,0	5,0
C _K (max)	[pF]	150	150
R _{CuN} (typ.)	[Ω]	1,6	1,6
R _{CuIC} (typ.)	[Ω]	6,0	5,0
Δ I _{DC}	[mA]	5,0	5,0
HIPOT	[V _{rms}]	1500	1500

ISDN Transformers

S₀ Interface Modules

Telecommunications IC cross reference

IC manufacturer	IC part number (ordering code)	EPCOS ordering code
Alcatel Microelectronics	MTC2072, MTC20276 MTC20279, MTC20172, MTC20277, MTC20278	B78475-P1560-A2 B78475-P1562-A2
AMD	AM79C30A AM79C32A	B78475-P1560-A2 B78475-P1562-A2 B78475-P1565-A2
Cologne Chip Des.	HFC-S2BDS0	B78475-P1560-A2 B78475-P1562-A2
Infineon	PEB/PSB.21150, 21381/2, 21383/4, 2154, 3081, 3086, 3186	B78475-P1563-A2
	PEB/PSB.2080, 2081, 2084, 2085, 2086, 2115, 2186, 8090, 8091, 8191	B78475-P1560-A2 B78475-P1562-A2 B78475-P1565-A2
Intel	29C53AA	B78475-P1561-A2 B78475-P1564-A2
Lucent	T7234, T7250, T7252, T7256, T7259, T9000	B78475-P1561-A2 B78475-P1564-A2
Mietec	MTC-2072	B78475-P1560-A2 B78475-P1562-A2 B78475-P1565-A2
Mitel	MT8930, MT8931	B78475-P1560-A2 B78475-P1562-A2 B78475-P1565-A2
Motorola	MC145574, MC145576	B78475-P1561-A2 B78475-P1564-A2
National Semiconductor	TP3420, TP3421	B78475-P1560-A2 B78475-P1562-A2 B78475-P1565-A2
STM	ST5420, ST5421	B78475-P1560-A2 B78475-P1562-A2 B78475-P1565-A2
VLSI	VNS8000	B78475-P1560-A2 B78475-P1562-A2

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