



Telecommunications, T1/E1/CEPT/ISDN-Pri

Single Channel, Dual Isolation Transformers

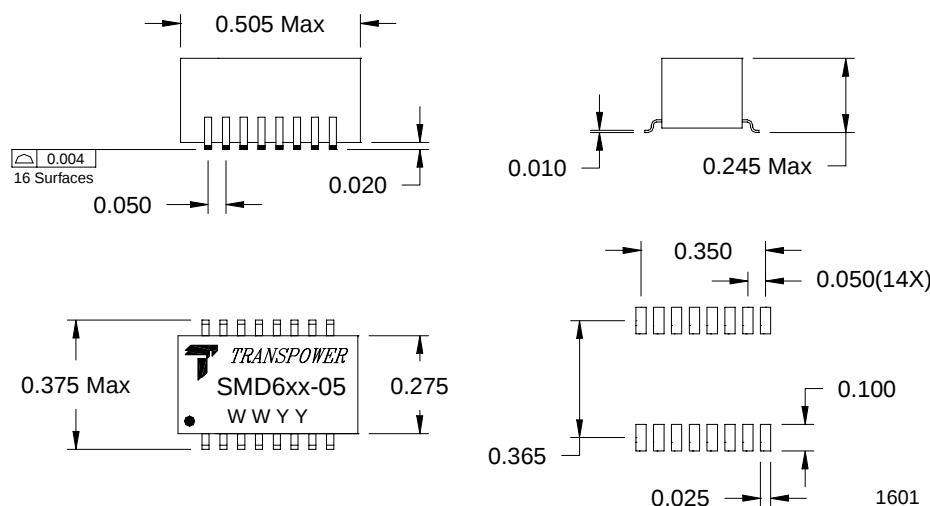
SMD6xx-05, Rev. I

26 Feb 02

("xx" equals one of the circuit numbers in the table below the mechanical.)

General Features:

- Small surface mount package
- Designed to accomodate transceiver chip sets from the leading IC vendors
- All components available with industrial temperature rating (-40°C to +85°C)
- See page 2 for part number details.
- Dual package for complete single port application, includes transmit and receive transformers
- Package molded using UL94-V0 rated material



All dimensions are ± 0.005 unless otherwise noted.

Suggested Pad Layout

T1/E1 Electrical Characteristics @ 25°C

Primary Inductance*:	1.2mH Min, 1.5 Typ for ET parts 0.6mH Min for ET parts @ -40°C
Leakage Inductance*:	0.6uH Max
Interwinding Capacitance*:	35pF Max
Dielectric Isolation (Pri:Sec):	1500 Vrms Min

Winding DC Resistance

Ratio Number	Ohms Max
1	0.70
1.15	0.80
1.18	0.80
1.26	0.80
1.36	0.80
1.41	1.00
1.5	1.10
1.58	1.10
2	1.20
2.3	1.50
2.4	1.50

For example:

SMD603-05 has
 0.70 Ω Max Transmit Primary
 1.20 Ω Max Transmit Secondary
 0.70 Ω Max Receive Primary
 0.80 Ω Max Receive Secondary

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* All impedance measurements are made with 0.1Vrms@100kHz



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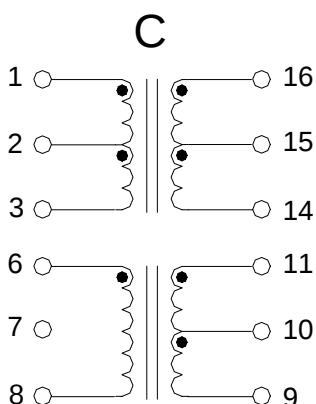
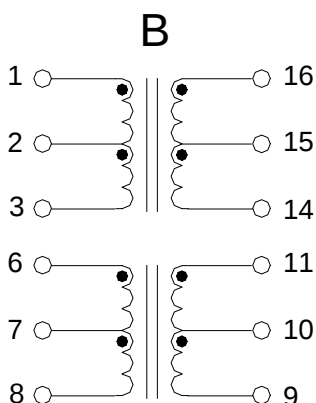
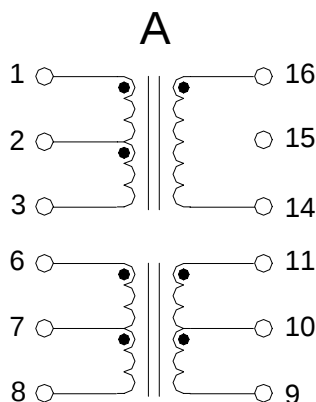
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SMD6xx-05 Part Number Table



Part Number	Turns Ratio (Pri:Sec)		Schematic	Primary Pins	
	Transmit	Receive		TX	RX
SMD601-05	1:1.15CT	1CT:2CT	A	16-14	6-8
SMD602-05	1CT:2CT	1CT:2CT	B	16-14	6-8
SMD603-05	1CT:2CT	1:1.36CT	C	16-14	6-8
SMD604-05	1:1/1.26	1CT:2CT	A	16-14	6-8
SMD605-05	1CT:1.15CT	1CT:1.15CT	B	1-3	6-8
SMD606-05	1CT:1CT	1CT:2CT	B	16-14	6-8
SMD607-05	1CT:1.41CT	1CT:1.41CT	B	16-14	11-9
SMD608-05	1CT:1CT	1CT:1CT	B	16-14	6-8
SMD609-05	1CT:1CT	1CT:1.36CT	B	16-14	6-8
SMD610-05	1CT:1.15CT	1CT:1CT	B	16-14	6-8
SMD612-05	1CT:2.42CT	1CT:2.42CT	B	1-3	6-8
SMD613-05	1CT:2.42CT	1CT:1CT	B	16-14	6-8
SMD614-05	1CT:2CT	1CT:2CT	B	1-3	6-8
SMD615-05	1CT:1.36CT	1CT:1.36CT	B	16-14	6-8
SMD618-05	1:1.5CT	1:1CT	C	16-14	6-8
SMD619-05	1:1.58CT	1:1CT	C	16-14	6-8
SMD620-05	1:2.4CT	1:2CT	C	16-14	6-8
SMD621-05	1:2.3CT	1:1CT	C	16-14	6-8
SMD622-05	1:1.18CT	1:1CT	C	16-14	6-8
SMD623-05	1:1.26CT	1:1.26CT	C	16-14	6-8
SMD624-05	1:1.58CT	1:1.58CT	C	16-14	6-8

Notes:

1) P/N SMD604-05 provides two turns ratios.

For 1:1, use secondary pins 2-3 and for 1:1.26, use secondary pins 1-3.

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All components are available with industrial temperature rating (-40°C to +85°C) by adding "ET" to the base part number. For example, the industrial temperature range part number for the SMD604-05 is SMD604ET-05.