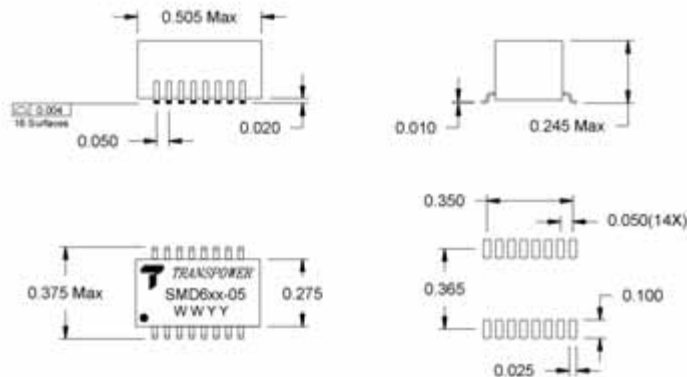


TELECOMMUNICATIONS

ISOLATION TRANSFORMERS — SURFACE-MOUNT



SMD6xx-05: Single Channel, Dual Transformer (Small Footprint)



All dimensions are ± 0.005 unless otherwise noted.
All dimensions are in inches.

SMD6xx-05 Part Number Table

Part Number	Turns Ratio (Pri:Sec)	
	Transmit	Receive
SMD601-05	1:1.15CT	1CT:2CT
SMD602-05	1CT:2CT	1CT:2CT
SMD603-05	1CT:2CT	1:1.36CT
SMD604-05	1:1/1.26	1CT:2CT
SMD605-05	1CT:1.15CT	1CT:1.15CT
SMD606-05	1CT:1CT	1CT:2CT
SMD607-05	1CT:1.41CT	1CT:1.41CT
SMD608-05	1CT:1CT	1CT:1CT
SMD609-05	1CT:1CT	1CT:1.36CT
SMD610-05	1CT:1.15CT	1CT:1CT
SMD612-05	1CT:2.42CT	1CT:2.42CT
SMD613-05	1CT:2.42CT	1CT:1CT
SMD614-05	1CT:2CT	1CT:2CT
SMD615-05	1CT:1.36CT	1CT:1.36CT
SMD618-05	1:1.15CT	1:1CT
SMD619-05	1:1.58CT	1:1CT
SMD620-05	1:2.4CT	1:2CT
SMD621-05	1:2.3CT	1:1CT
SMD622-05	1:1.18CT	1:1CT
SMD623-05	1:1.26CT	1:1.26CT
SMD624-05	1:1.58CT	1:1.58CT
SMD625-05	1CT:1:0.8	1CT:1:0.8
SMD626-05	1CT:2.4CT	1CT:1CT

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*:	0.6μH Max
Interwinding Capacitance*:	35pF Max
Dielectric Isolation (Pri:Sec):	1500 Vrms Min

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

Winding DC Resistance

Ratio Number	Ohms Max	Ratio Number	Ohms Max
0.8	0.7	1.41	1.0
1	0.7	1.5	1.1
1.15	0.8	1.58	1.1
1.18	0.8	2	1.2
1.26	0.8	2.3	1.5
1.36	0.8	2.4	1.5

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

Notes:

- 1) P/N SMD604-05 provides two turns ratios.
For 1:1, use secondary pins 2-3.
For 1:1.26, use secondary pins 1-3.
- 2) P/N SMD625-05 has split secondary windings.
For 1:1, use secondary pins 1-2 and pins 5-6.
For 1:0.8, use secondary pins 3-4 and pins 7-8.
- 3) Part numbers may be modified as follows:
SMD6xxET-05 indicates -40C to +85C operation