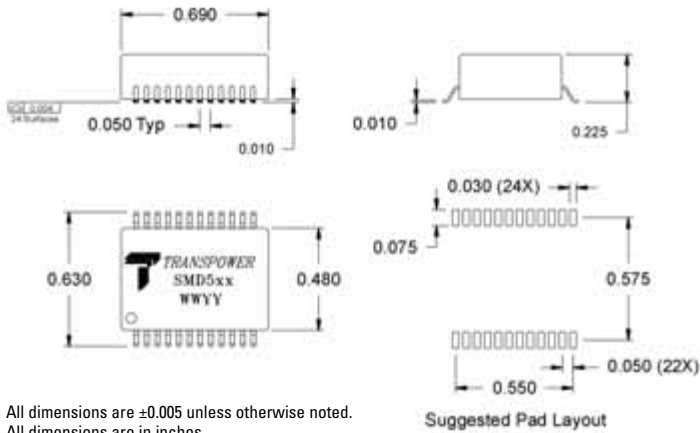


TELECOMMUNICATIONS

ISOLATION TRANSFORMERS — SURFACE-MOUNT



SMD5xx:
Dual Channel, Quad Transformer



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

SMD5xx
Part Number Table

Part Number	Turns Ratio (Pri:Sec)	
	Transmit	Receive
SMD501	1:1.15	1:2
SMD502	1:2	1:2
SMD503	1:1.36	1:2
SMD504	1:1/1.26	1:2
SMD505	1:1.15	1:1.15
SMD506	1:1	1:2
SMD507	1:1.41	1:1.41
SMD508	1:1	1:1
SMD509	1:1.36	1:1
SMD510	1:1.15	1:1
SMD512	1:2.42	1:2.42
SMD513	1:2.42	1:1
SMD515	1:1.36	1:1.36
SMD518	1:1.5	1:1
SMD519	1:1.58	1:1
SMD520	1:2.4	1:2
SMD521	1:2.3	1:1
SMD522	1:1.18	1:1
SMD523	1:1.26	1.26:1
SMD524	1:1.58	1:1.58

T1/E1 Electrical Characteristics @ 25°C

Primary Inductance*:	1.2mH Min, 1.5mH Typ for ET parts 0.6mH Min for ET parts @ -40°C
Leakage Inductance*:	0.6 μ H Max
Interwinding Capacitance*:	30pF Max
Dielectric Isolation (Pri:Sec):	1500 Vrms Min

Winding DC Resistance**	
Ratio Number	Ohms Max
1	0.70
1.15	0.80
1.26	0.80
1.36	0.80
1.41	1.00
2	1.20
2.42	1.50

For example:
SMD503 has
0.70 Ohm max Transmit Pri
0.80 Ohm max Transmit Sec
0.70 Ohm max Receive Pri
1.20 Ohm max Receive Sec

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

Notes:

1) All of the SMD5xx parts are available for operation from -40C to +85C by adding the letters "ET" at the end of the part number. For example, the extended temperature version of SMD505 would be SMD505ET.