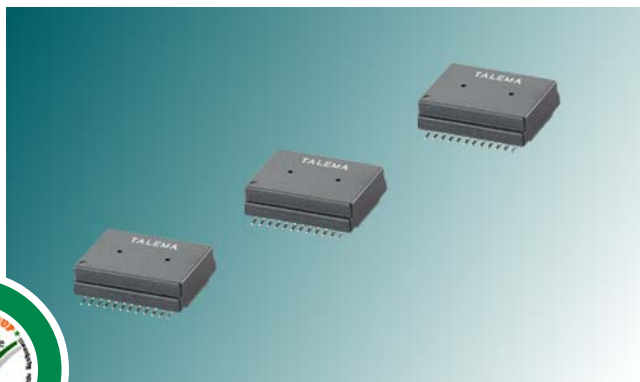




E1/T1/ PRI/CEPT Dual Transformer Modules

Features

- SMD design ideal for pick and place compatability while providing unrivaled coplanarity
- controlled parameters ensure full compliance with ITU-T G.703 when matched with recommended IC
- ideal for all 1.544 and 2.048 Mbs interface applications
- manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- 1500Vrms minimum isolation voltage
- extended operating temperature: -40° to +85°C
- fully RoHS compliant and meets lead free reflow level J-STD-020C



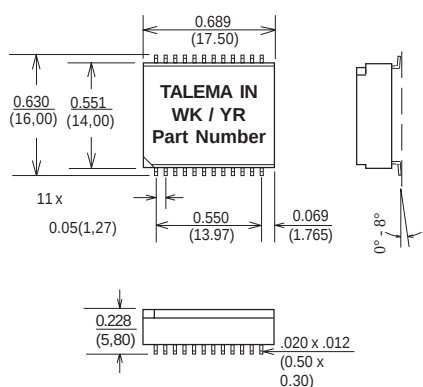
Electrical Specifications @ 25°C

Turns Ratio: **Bold** = IC side windings

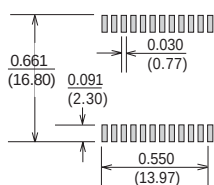
MGJ Series - Dual Port Transformers

Part Number	Transformer - Transmit					Transformer - Receive					Schematic
	Turns Ratio +/-2%	L _P (mH Min)	R _{CU} (Ohms)		Primary Pins	Turns Ratio +/-2%	L _P (mH Min)	R _{CU} (Ohms)		Primary Pins	
			Pri.	Sec.				Pri.	Sec.		
MGJ-100A	1ct: 2.42ct	1.2	0.39	0.94	4-6 & 10-12	1ct: 2.42ct	1.2	0.39	0.94	1-3 & 7-9	A
MGJ-101A	1ct: 2ct	1.2	0.39	0.77	4-6 & 10-12	1ct: 1ct	1.2	0.39	0.39	24-22 & 18-16	A
MGJ-102A	1ct: 1.15ct	1.2	0.39	0.44	4-5 & 10-12	1ct: 1.15ct	1.2	0.39	0.44	1-3 & 10-12	A
MGJ-103A	1ct: 2ct	1.2	0.39	0.77	4-6 & 10-12	1ct: 2ct	1.2	0.39	0.77	1-3 & 7-9	A
MGJ-104A	1ct: 2.3ct	1.2	0.39	0.90	4-6 & 10-12	1ct: 1ct	1.2	0.39	0.39	24-22 & 18-16	A
MGJ-105A	1ct: 1.36ct	1.2	0.39	0.53	4-6 & 10-12	1ct: 2ct	1.2	0.39	0.77	24-22 & 18-16	A
MGJ-106A	1ct: 1.36ct	1.2	0.39	0.53	4-6 & 10-12	1ct: 1ct	1.2	0.39	0.39	24-22 & 18-16	A
MGJ-107A	1ct: 1.15ct	1.2	0.39	0.44	4-6 & 10-12	1ct: 2ct	1.2	0.39	0.77	1-3 & 7-9	A
MGJ-108B	1ct: 2.4ct	1.2	0.39	0.94	1-3 & 10-12	1ct: 1ct	1.2	0.39	0.39	21-19 & 18-16	B
MGJ-109B	1ct: 1.41ct	1.2	0.39	0.58	1-3 & 10-12	1ct: 1.41ct	1.2	0.39	0.58	21-19 & 18-16	B
MGJ-110B	1ct: 2ct	1.2	0.39	0.77	1-3 & 10-12	1ct: 2ct	1.2	0.39	0.77	21-19 & 18-16	B

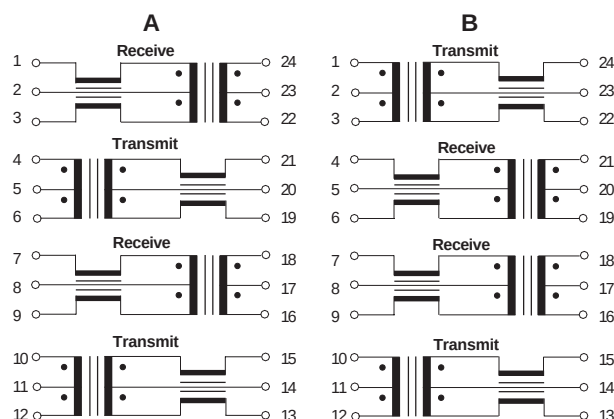
Dimensions



Suggested Pad Layout



Schematics



Surface Coplanarity will be 0.004(0.10) maximum

Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25) unless specified otherwise