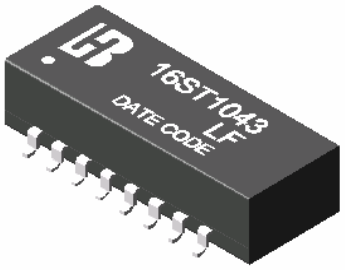
10/100BASE-T SINGLE PORT TRANSFORMER MODULES

P/N: 16ST1043 LF DATA SHEET

Feature



- Designed for 100MB/S and 150MB/S transmission over UTP-5 and STP cable.
- 155 ATM, 100 BASE-TX and TP-FDDI applications.
- Cable interface for isolation and low common mode emissions.
- Fully integrated modules for multi-port concentrators and adapter card applications.
- 16-PIN SMD package, pick and place compatible.
- Comply with RoHS requirements-whole part No Cd, No Hg, No Cr6+, No PBB and PBDE and No Pb on external pins.
- Comply with Air reflow profile of JEDEC 020C.
- Operating temperature range:0℃ to +70℃.
- Storage temperature range:-25℃ to +125℃.

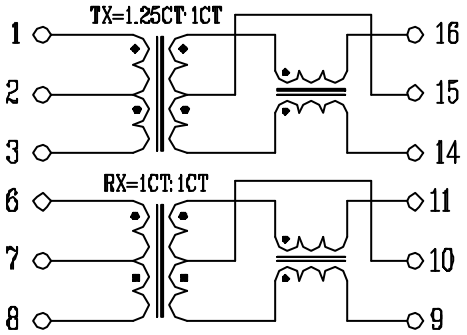
Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL(uH Min) @100KHz/0.1V with 8mA DC Bias	L.L (uH Max)		C_{WW} (pF Max)	HI-POT (Vrms)
	TX	RX		TX	RX		
16ST1043 LF	1.25CT:1CT	1CT:1CT	350	1.0	0.6	28	1500

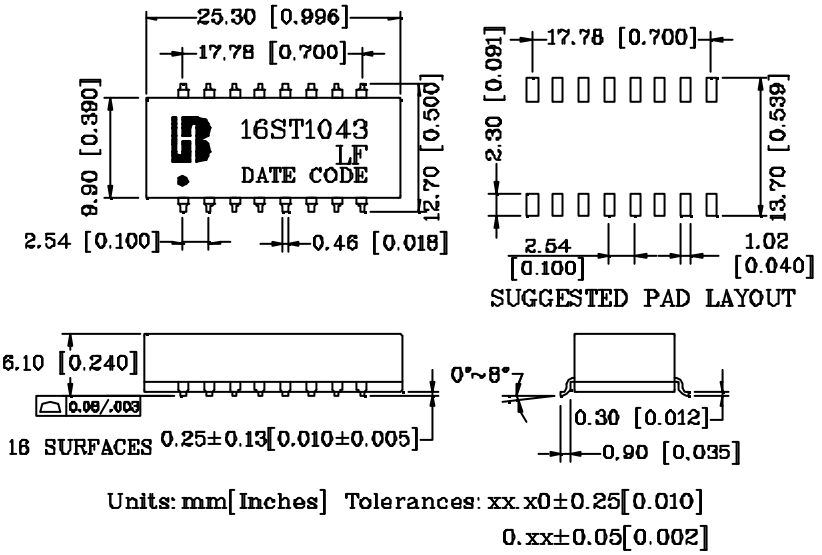
Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)					Cross talk (dB Min)		DCMR (dB Min) TX/RX		
	0.3-100 MHz	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-60MHz	60-100MHz	30MHz	60MHz	100MHz
16ST1043 LF	-1.15	-16	-14	-13.5	-13	-12	-45	-35	-40	-30	-25

Schematic



Mechanical



Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]
0.xx±0.05[0.002]

462 Boston St - Topsfield, MA 01983 - Phone: 978-887-8050 - Fax: 978-887-5434