



40 PIN SMD ETHERNET 10/100 BASE-TX  
HIGH SPEED LAN MAGNETICS

**P/N: 40ST1041AXN DATA SHEET**

**Feature**



- IEEE 802.3 Ethernet compatible.
- 100 Base-TX Surface mountable.
- Design for multi-port repeater and Ethernet switching HUB application.
- Customer designs available for specific application.
- Operating temperature range : 0°C to +70°C .
- Storage temperature range: -25°C to +125°C .

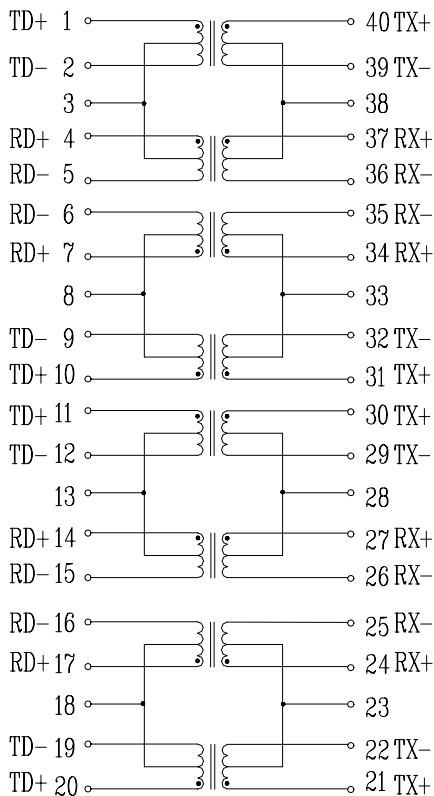
**Electrical Specifications @ 25°C**

Part Number	Turns Ratio (±5%)		OCL(μH Min) @100KHz/0.1Vrms 8mA DC/Bias	L.L (μH Max)	C <sub>WW</sub> (pF Max)	HI-POT (Vrms)	Rise Time (nS Typ)
	TX	RX					
40ST1041AXN	1CT:1CT	1CT:1CT	350	0.4	56	1500	3.0

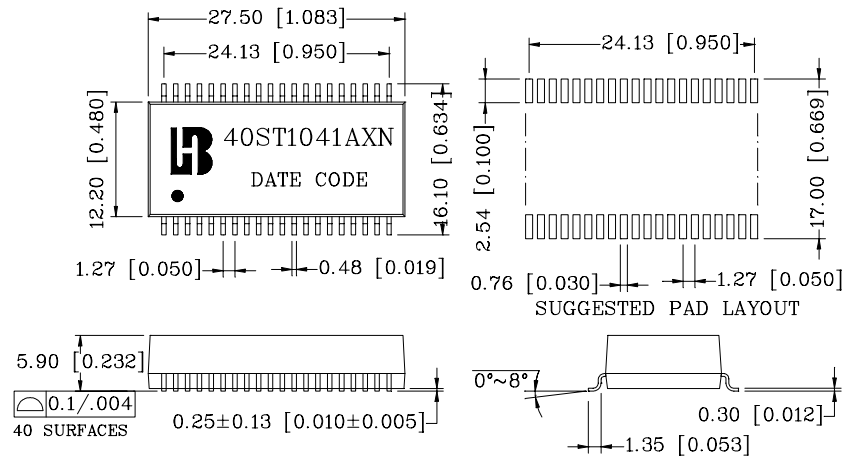
**Continue**

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		DCMR (dB Min)		
		0.3-100MHz	0.3-30MHz	30-60MHz	60-80MHz	0.3-60MHz	60-100MHz	60MHz	100MHz
40ST1041AXN	-1.0	-14	-12	-10	-35	-30	-30	-25	-20

**Schematic**



**Mechanical**



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