

10/100 BASE-T TRANSFORMER**P/N:16ST8520BX DATA SHEET****Feature**

- Designed for 10/100 MB/s transmission over UTP-5 cable.
- Tested & qualified for use with national semiconductor's DP83840 Ethernet 10/100 PHY chip.
- Cable interface for isolation and low common mode emissions.
- 16-PIN SMD package for economic cost.
- 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%) TX/ RX	OCL (uH Min) @ 100KHz/0.1V with 8mA/DC Bias	L.L (uH Max)	C _{WW} (pF Max)	PRI DCR (Ω Max)	Hi-POT (Vrms)
16ST8520BX	1CT:1CT	350	0.6	50	0.9	1500

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Cross talk (dB Min)		DCMR (dB Min) TX/RX		
	0.3-100MHz	0.5-30MHz	40MHz	50MHz	60-80MHz	0.3-60MHz	60-100MHz	30MHz	60MHz	100MHz
16ST8520BX	-1.1	-16	-15	-13	-11	-45	-35	-40	-30	-25

Schematic**Mechanical**