

**LAN**

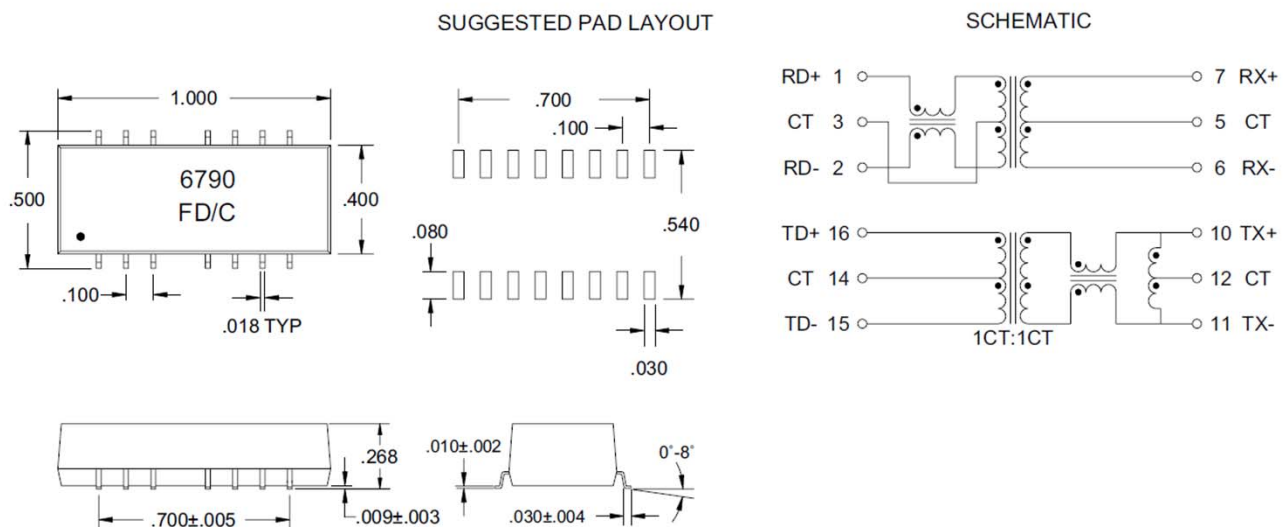
# 10/100 Base-T Single Port Transformer Module

**6790**

- Provides excellent EMI filtering
- Designed for use with data grade unshielded twisted pair cable (UTP-5)
- Suitable for adapter card cable and multiport applications
- Meets IEEE 802.3 and ANSI X3.263 standards, including 350µH OCL with 8mA DC bias



**MECHANICAL AND SCHEMATIC (All dimensions in inches)**



UNLESS OTHERWISE SPECIFIED, ALL TOLERANCES ARE ±0.010

**ELECTRICAL SPECIFICATION @ 25°C**

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min @ 100Ω)					Differential to Common Mode Rejection (dB Min)			Crosstalk (dB Typ)			Hipot (Vrms)
		1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
6790	-1.0	-18	-18	-16	-12	-50	-45	-40	-55	-50	-50	1500	

Turns Ratio @ 20 kHz, 0.5 V: (1-2):(7-6)=1CT:1CT±2%  
 (15-16):(11-10)=1CT:1CT±2%

Inductance @ 100kHz, 100mV, 8mA: 350µH Min (15-16)  
 350µH Min (1-2)