

Part Number: AE-SB16029PH

10/100 SMD LAN Transformer

Page: 1/2

- Compliant with IEEE 802.3 standard.
- RoHS compliant.
- Power over Ethernet (PoE) Magnetics, 600mA @57V.
- Operating temperature range: -40°C to +85°C.
- Storage temperature range: -40°C to +125°C



Electrical Specifications

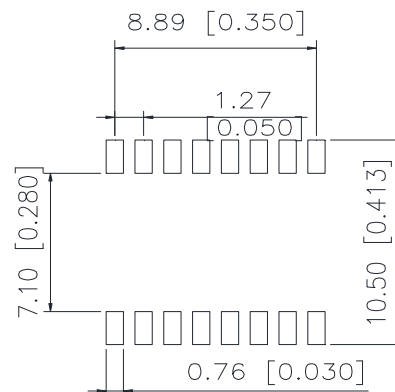
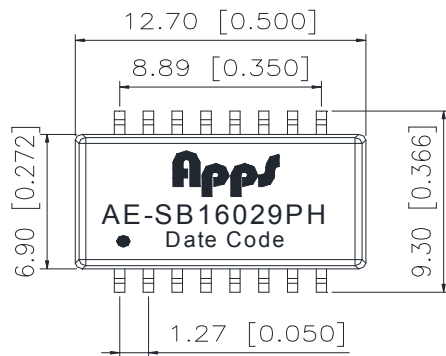
Part Number	Turns Ratio (±5%)		OCL(μH Min) @100KHz/0.1V		Insertion Loss (dB Max)		HI-POT (Vrms)
	TX	RX	With 8.0mA DC	With 19.0mA DC	0.1MHz	1-125MHz	
AE-SB16029PH	1CT:1CT	1CT:1CT	350	120	-1.2	-0.2-0.002*f ^{1.4}	1500

Continue

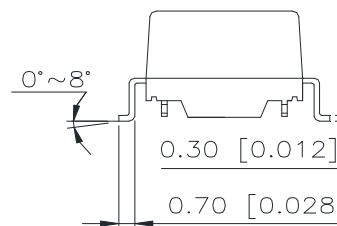
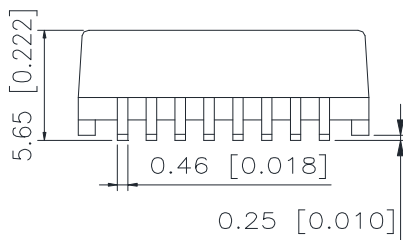
Part Number	Return Loss (dB Min)			Cross Talk (dB Min)		CMRR (dB Min)	
	0.1-30MHz	30-60MHz	60-80MHz	1MHz	10-100MHz	2MHz	3-200MHz
AE-SB16029PH	-16	-10+20*lg(f/60)	-10	-50	-55+22*lg(f/10)	-45	-7+28*lg(f/200)

Remark: Electrical characteristics at 25°C unless other specified

Mechanicals:



SUGGESTED PCB LAYOUT



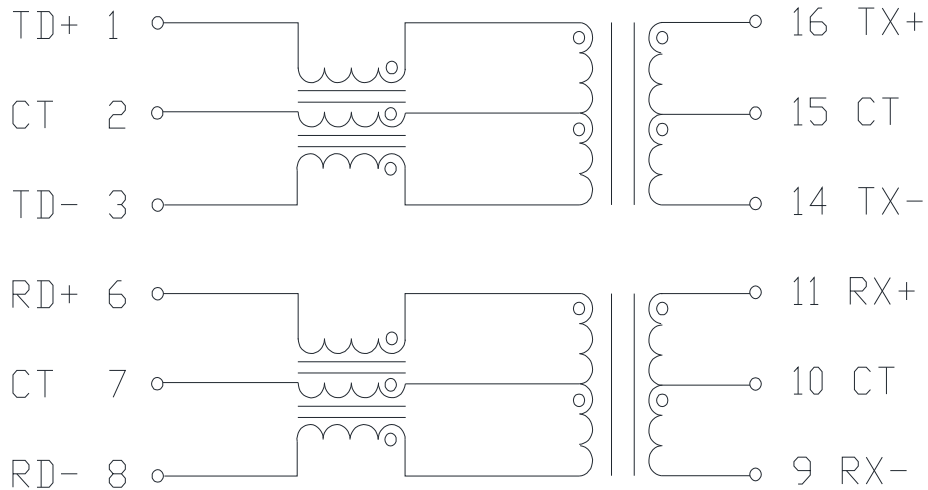
Dimension: mm[Inch]±0.25[0.010]

Part Number: AE-SB16029PH

10/100 SMD LAN Transformer

Page: 2/2

SCHEMATICS:



Package:

