

Part Number: AE-SB16010

10/100 BASE SINGLE PORT TRANSFORMER

Page: 1/2

- Compliant with IEEE 802.3 standard.
- RoHS compliant.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -20°C to +125°C.

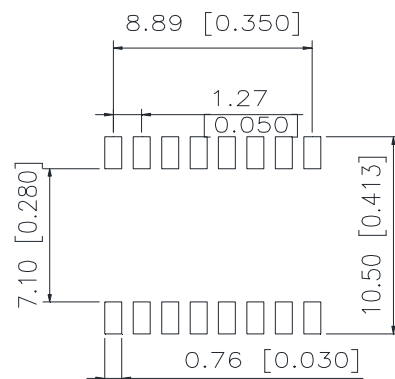
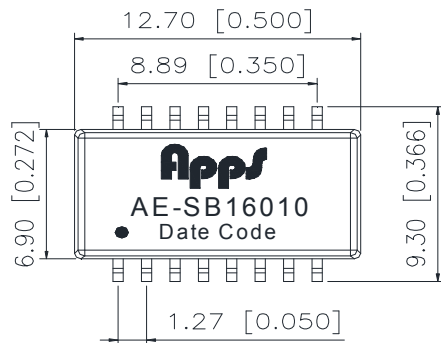
Electrical Specifications @ 25°C

Part Number	Turns Ratio (±2%)	OCL(μH Min) @100KHz/0.1V with 8.0mA DC	Insertion Loss (dB Max)		HI-POT (Vrms)
	TX : RX		0.3MHz	1-125MHz	
AE-SB16010	1CT:1CT	350	-1.2	$-0.2-0.002*f^{1.4}$	1500

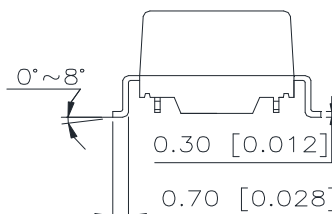
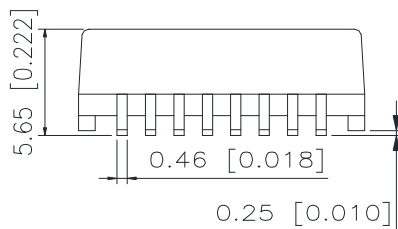
Continue

Part Number	Return Loss (dB Min)			Cross Talk (dB Min)		DCMR (dB Min)	
	1-30MHz	30-60MHz	60-80MHz	1MHz	10-100MHz	2MHz	30-200MHz
AE-SB16010	-16	$-10+20*\lg(f/60)$	-10	-55	$-55+22*\lg(f/10)$	-50	$-43+22*\lg(f/30)$

Mechanicals:



SUGGESTED PCB LAYOUT



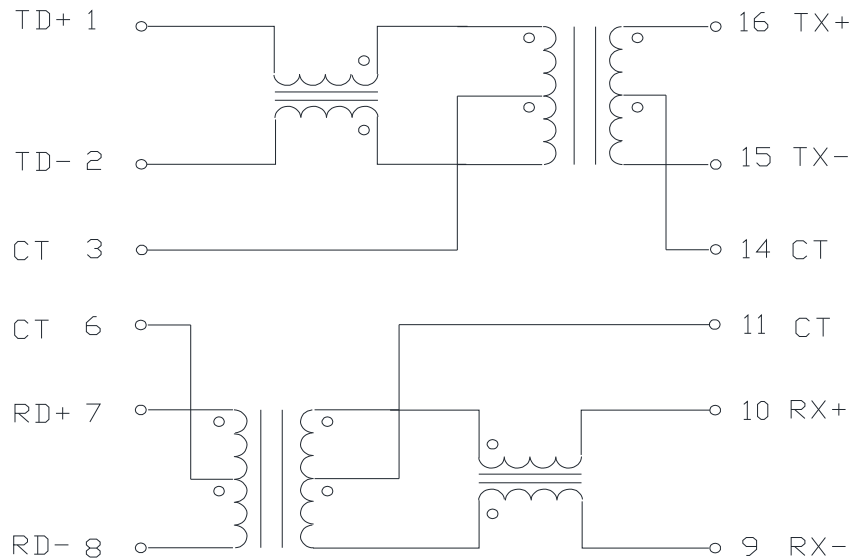
Dimension: mm[Inch]±0.25[0.010]

Part Number: AE-SB16010

10/100 BASE SINGLE PORT TRANSFORMER

Page: 2/2

Schematics:



Package:

