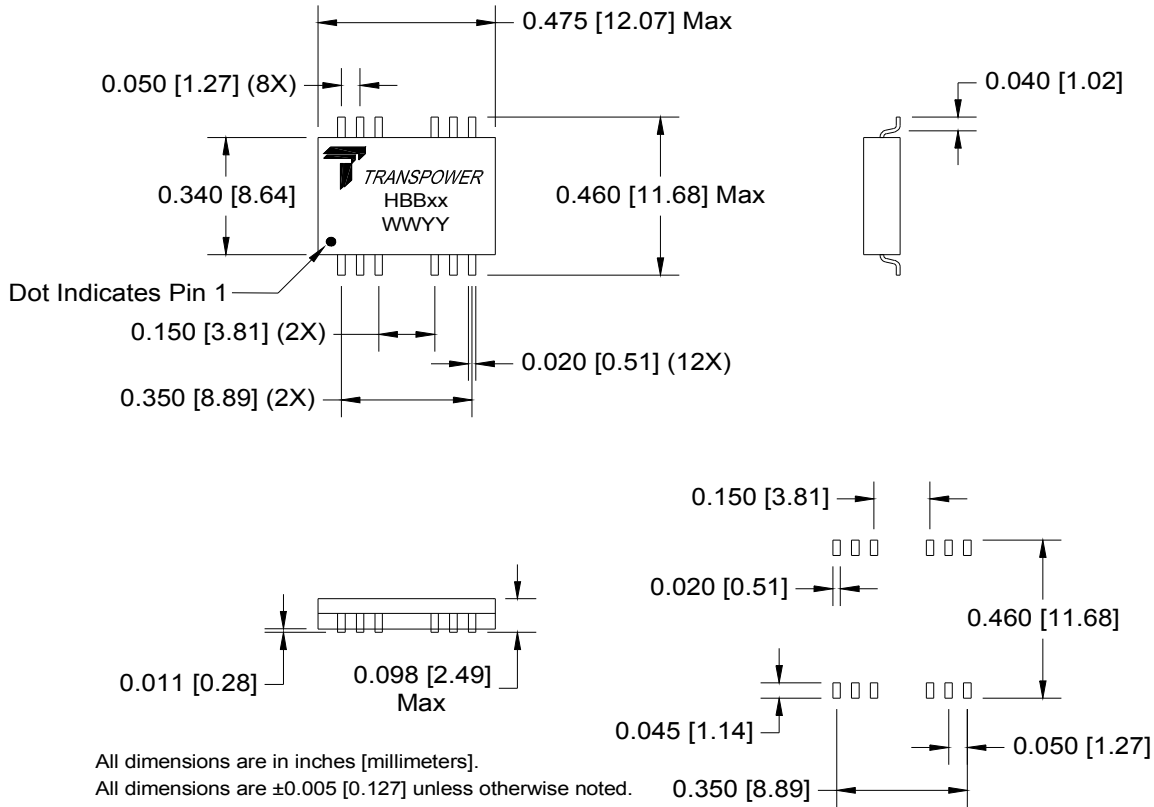


Product Description	10/100BASE-T Magnetics Single Port, Surface Mount, Ethernet Module
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Standard Features

- Single channel interface for 10/100BASE-T applications
- Surface mount package designed for reflow process (240°C peak)
- Tape & Reel Packaging standard
- Package molded using UL94-V0 rated material

HBBxx Mechanical

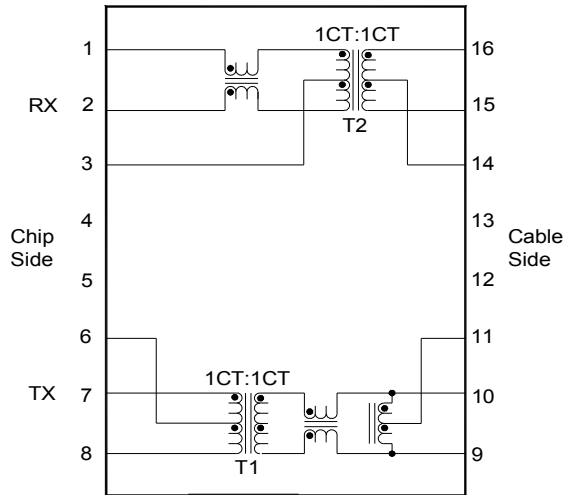


All dimensions are in inches [millimeters].
 All dimensions are ±0.005 [0.127] unless otherwise noted.

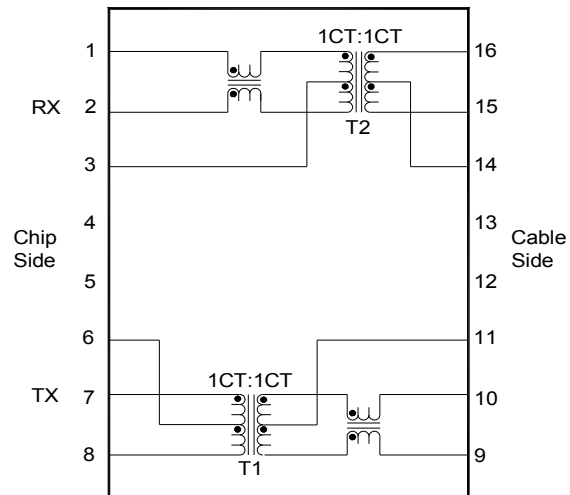
Actual terminal dimensions.
 Customer to determine PCB pad dimensions.

Product Description	10/100BASE-T Magnetics Single Port, Surface Mount, Ethernet Module
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Schematic A



Schematic B



HBBxx Part Number Table

Part Number	Schematic	AutoMDIX Compatible
HBB14	A	No
HBB26	B	Yes

10/100BASE-T Electrical Characteristics @ 25°C

Inductance (HBB14 TX): 350uH Min with 8mADC Bias, 25°C
320uH Min with 8mADC Bias, 0°C to 70°C

Inductance (HBB14 RX, HBB26 TX and RX): 350uH Min with 8mADC Bias, 25°C
320uH Min with 8mADC Bias, 25°C to 50°C
280uH Min with 8mADC Bias, 0°C to 70°C
(each transformer measured on the cable side)

Rise time (10% - 90%): 2.5nSec typical

Dielectric Isolation: 1500Vrms Minimum

Frequency	Insertion Loss (dB Max)	Return Loss (dB Min) (Note 1)	Crosstalk Attenuation (dB Min)	Transmit CMRR (dB Min)	Receive CMRR (dB Min)
0.1MHz - 1MHz	1.0	15.0	43.0	42.0	42.0
1.1MHz - 15MHz	0.8	15.0	43.0	42.0	42.0
15.1MHz - 20MHz	0.8	15.0	43.0	42.0	42.0
20.1MHz - 60MHz	0.8	10.3 @ 60MHz	43.0	42.0	42.0
60.1MHz - 80MHz	1.2	9.0 @ 80MHz	38.0	38.0	38.0
80.1MHz - 100MHz	1.3	8.0 @ 100MHz	38.0	35.0	35.0

Notes:

1) Minimum return loss is as follows with a circuit impedance of 100 Ohms +/- 15%:

1Mhz - 19.9MHz = 15dB

20Mhz - 100MHz = 15 - 10Log₁₀(f/20) dB where f is in MHz

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