

THCOM The Coordinated-Team

HIGH SPEED LAN 10/100BASE-TX MAGNETIC MODULE (SMD)

Feature:

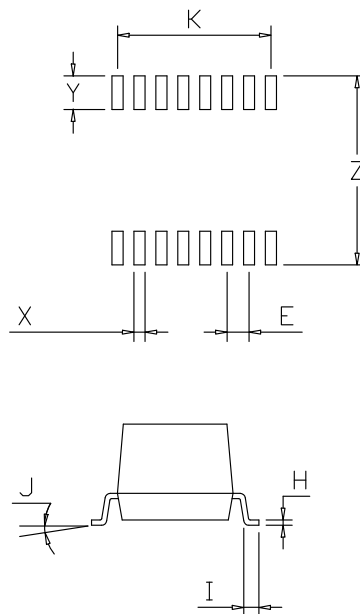
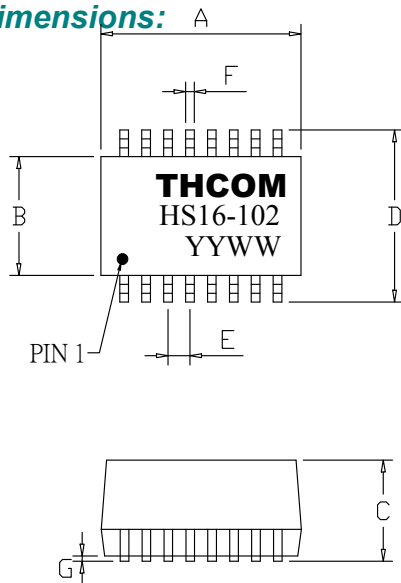
- M** Operating Temperature -40 °C To 85 °C
- M** Compliant With IEEE802.3ab Standard For 1000Base-T
- M** 24PIN SMT Designed For Reflow Soldering Temperatures Up To 245 °C
- M** Available Transceivers Requirement, 1:1 turns ratio
- M** Supports 4 Pairs of Cat 5 of Better UTP Cable
- M** Design of Long Haul Gigabit Ethernet 100/1000 Base-T, Full Duplex Transmission Applications
- M** Cable Interface For Isolation And Low Common Mode Emissions
- M** Isolation Voltage :1500Vrms

ELECTRICAL CHARACTERISTICS @25 °C

Rise Time & Fall Time @ 5.0nS(Max), Isolation Hi-pot: 1500Vrms(pri/sec), Pri. OCL: TX&RX: 350uH Min @ I_{dc}=8mA

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Common Mode Rejection Ratio (dB Min)			Cross Talk (dB Min)		Cw/w (Pf)	DC Resistant (Ω Max)	Turn Ratio TX/RX (±5%)
		1-30	40	50	60-80	1-30	60	80-100	1-30	60-100			
		MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
HS16-102	-1.0	-18	-16	-14.5	-12	-40	-35	-30	-42	-35	28	0.9	1CT:1/1CT:1CT

Dimensions:



Unit:mm/inch

- A= 12.70 / 0.500
- B= 7.00 / 0.276
- C= 5.70 / 0.224
- D= 9.60 / 0.378
- E= 1.27 / 0.050(typ)
- F= 0.46 / 0.018
- G= 0.30 / 0.012
- H= 0.25 / 0.010
- I= 0.80 / 0.031
- J= 0°-8°
- K= 8.89 / 0.350(typ)
- X= 0.64 / 0.025
- Y= 1.90 / 0.075
- Z= 10.66 / 0.420

Schematic:

