



MGH6S-00005	REV	 
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Product Description	Ethernet Magnetics	
	Single Port Ethernet Magnetics Module	

## Standard Features

Single port interface

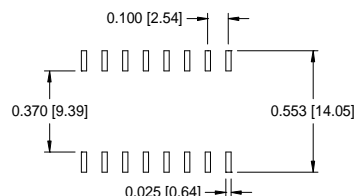
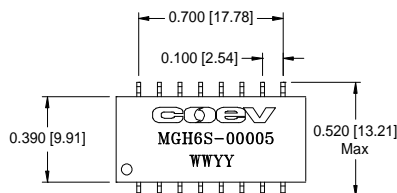
Compliant IEEE 802.3 and ANSI X3.263 Standards

Surface mount package designed for reflow process (260°C peak)

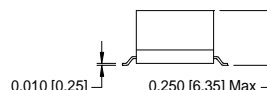
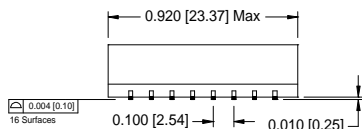
Tape & Reel Packaging is standard

Package molded using UL 94-V0 rated material

Meets RoHS Lead Free requirements



Suggested pad layout



All dimensions are in inches and [millimeters].  
All dimensions are  $\pm 0.005$  [0.127] unless otherwise noted.

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

Inductance:	350uH Min with 8mADC Bias (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	18.0	43.0	42.0	42.0
1.1MHz - 15MHz	0.5	18.0	43.0	42.0	42.0
15.1MHz - 30MHz	0.8	18.0	43.0	42.0	42.0
30.1MHz - 60MHz	0.8	12.0 @ 60MHz	43.0	42.0	42.0
60.1MHz - 80MHz	1.1	12.0 @ 80MHz	38.0	38.0	38.0
80.1MHz - 100MHz	1.2	10.0 @ 100MHz	38.0	35.0	35.0

### Notes:

1) Minimum return loss is as follows with a circuit impedance of 100 Ohms :

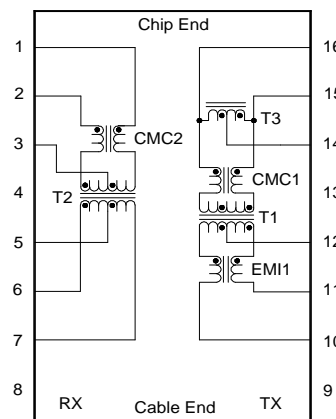
0.1Mhz - 29.9MHz = 18dB

30Mhz - 60MHz =  $18 - 20\log_{10}(f/30)$  dB where  $f$  is in MHz

60Mhz - 80MHz = 12dB

80.1Mhz - 100MHz = 10dB

## MGH6S-00005



RoHS Compliant

Operating Temperature -0 to 70

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