

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

Standard Features

Single port interface

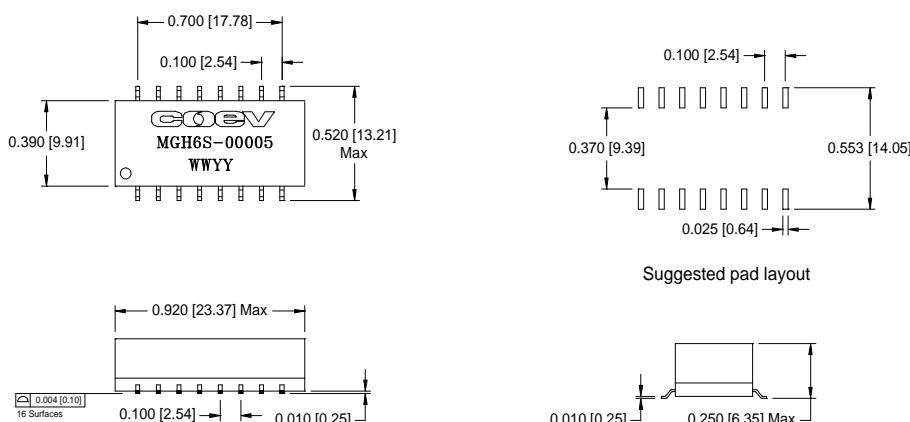
Compliant IEEE 802.3 and ANSI X3.263 Standards

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



All dimensions are in inches and [millimeters].
 All dimensions are ± 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 :

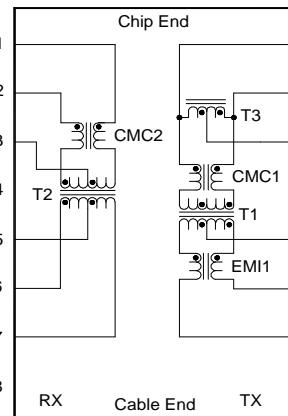
0.1Mhz - 29.9MHz = 18dB

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

60Mhz - 80MHz = 12dB

80.1Mhz - 100MHz = 10dB

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Operating Temperature -0 to 70

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RoHS Compliant