

MGG4L
(GB4Gxx-LP)
Series

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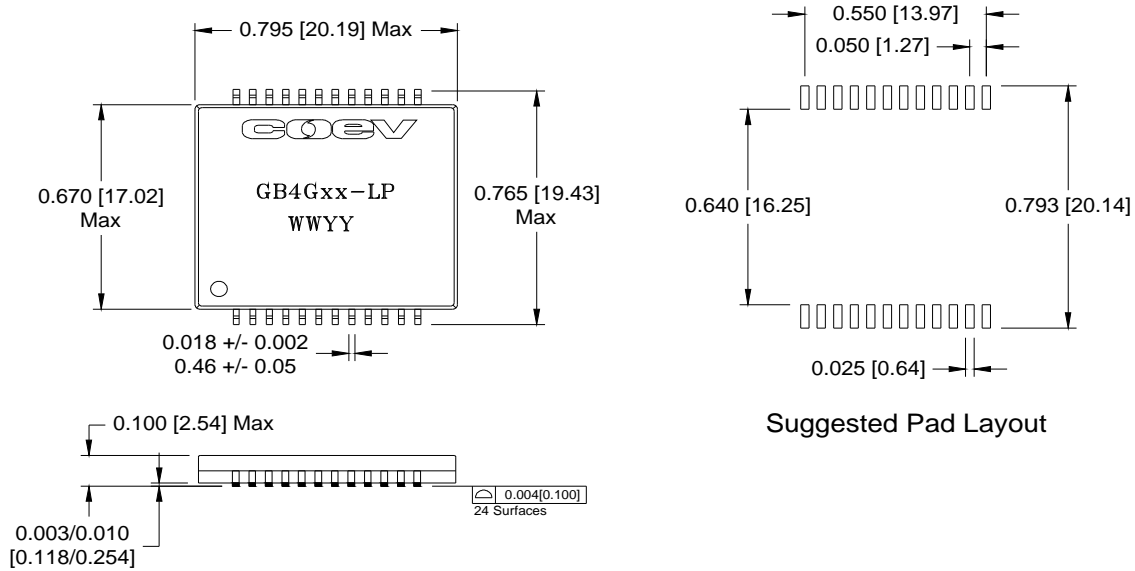


Product
Description

1000BASE-T MAGNETICS
SINGLE CHANNEL, SURFACE MOUNT MODULE

Standard Features

- Single channel interface for gigabit applications
- Compliant with IEEE 802.3 and ANSI X3.263 Standards
- Surface mount package designed for reflow process (240°C peak)
- Tape and Reel packaging is standard
- Package molded using UL94-V0 rated material, using transfer molding technology.



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

1000BASE-T Electrical Characteristics @ 25°C

- Inductance: 350uH Min with 8mADC Bias, 0°C - 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)	CMRR (dB Min)
0.1MHz - 1MHz	1.0	18.0	43.0	46.0
1.1MHz - 15MHz	0.4	18.0	35.0	46.0
15.1MHz - 40MHz	0.6	18.0	35.0	46.0
40.1MHz - 60MHz	0.8	14.5 @ 60Mhz	30.0	42.0
60.1MHz - 80MHz	1.2	12.0 @ 80MHz	30.0	42.0
80.1MHz - 100MHz	1.3	10.1 @ 100MHz	30.0	42.0

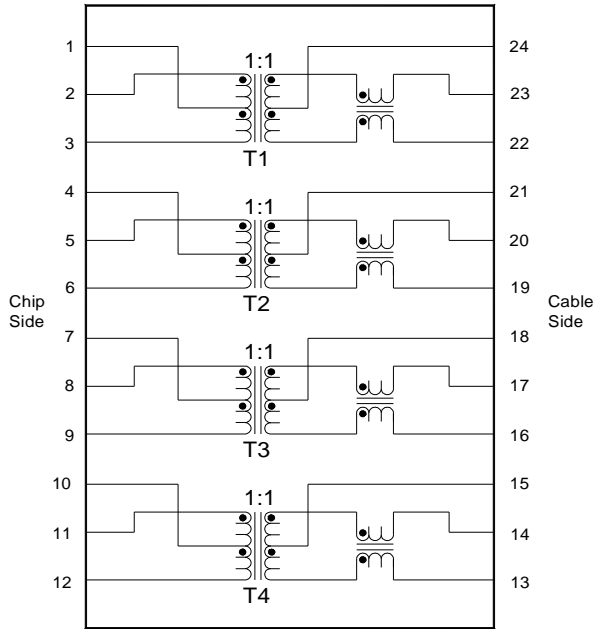
- Notes:
- Minimum return loss is as follows with a circuit impedance of 100 Ohms +/- 15%:
0.1Mhz - 39.9Mhz = 18dB
40Mhz - 100MHz = 12 - 20Log₁₀(f/80) dB where f is in MHz

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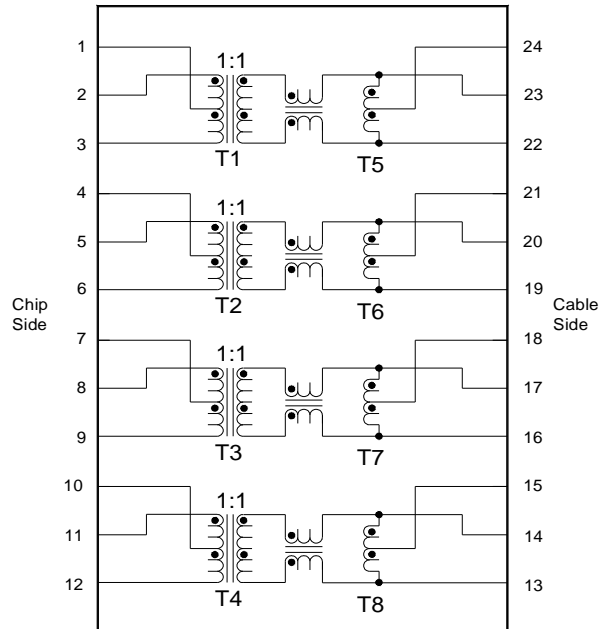
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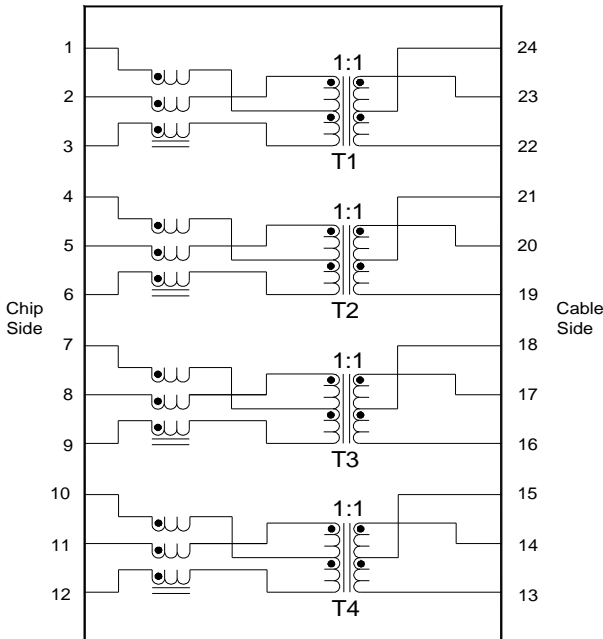
Schematic A



Schematic B



Schematic C



Part Number Table

Part Number	Schematic
GB4G01-LP	A
GB4G04-LP	B
GB4G43-LP	C

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