

Standard Features:

Dual port interface for Gigabit applications.
Unique package dimensions allow mounting directly behind stacked or ganged connectors for simplified trace routing and PCB layout.
Compliant with IEEE 802.3 and ANSI X3.263 Standards
Surface mount package designed for reflow process (240°C peak).
Tape and Reel packaging standard.
Package molded using UL94-V0 rated material.

1000BASE-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)	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:
1) Minimum return loss is as follows with a circuit impedance of 100 Ohms:
0.1MHz - 39.9MHz = 18dB
40MHz - 100MHz = 12 - 20Log₁₀(f/80) dB where f is in MHz



Part Number Table		
Part Number	Schematic	Temperature Range
GB3G01	A	0°C to 70°C
GB3G01-1	C	0°C to 70°C
GB3G01-2	E	0°C to 70°C
GB3G04	B	0°C to 70°C
GB3G04-1	D	0°C to 70°C
GB3G04-2	F	0°C to 70°C
MGG3S-00001	C	-40°C to +85°C

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN WM CHONG CHK WM CHONG	Tyco Electronics Corporation ChangPing China	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD —	NAME : 1000BASE-T MAGNETICS DUAL PORT SURFACE MOUNT MODULE	
	0 PLC ± 1 PLC ± 2 PLC ± 3 PLC ± 4 PLC ± ANGLES ±	PRODUCT SPC —		
	MATERIAL —	APPLICATION SPEC —		
FANISH —	WEIGHT —	CUSTOMER DRAWING	SIZE A3	CAGE CODE 00779
			DRAWING NO MGG3S series	RESTRICTED TO —
			SCALE 1:1	SHEET 1 : 1
			REV M	