











-  Magnetic Integrated Connector Modules
-  Compliant with IEEE802.3 standard including 350μH OCL with 8mA DC Bias
-  2000VDC isolation voltage
-  Enhanced performance on EMI suppression with metal shield
-  Support 4 pairs for Category 5 UTP cable with 1000Base-T full duplex applications
-  Operating temperature 0°C to +70°C
-  Stacked 2x1 design for Hub and Switch Applications
-  RoHS compliant versions are available



GENERAL ELECTRICAL SPECIFICATION @ 25°C

Insertion Loss (dB Max)		Return Loss ¹ (dB Min)		CMRR (dB Min)	Crosstalk ¹ (dB Min)	Hipot (VDC)
0.1-100MHz	100-125MHz	0.5-40MHz	40-100MHz	0.1-100MHz	0.1-100MHz	
1.0	1.2	18.0	12-20Log(F/80)	32.0	33-20Log(F/50)	2000

PART NUMBER TABLE

Part Number ²	RoHS Part Number	Turn Ratio (±3%) (Chip : Cable)	Configuration ³	LED ⁴ (Left / Right)	Mechanical Package	Schematic
MJ-21N2EEA2-G308	MJR21N2EEA2-G308	1CT:1	TCA	E / E	MJ21N-01A	G308

Notes:

- "F" represents the test frequency specified in MHz.
- For different electrical and mechanical specifications, please contact E&E Magnetic Products Limited.
- Core location are counted from PCB (Chip) side to Cable (Media) side, where:
"T" = Isolation transformer ; "C" = Common-mode choke ; "A" = Auto-transformer
- LEDs (Left / Right) : "E" = Orange & Green bi-color (3 terminals type). For different LED color requirements, please contact E&E Magnetic Products Limited.
- Panel tabs are optional.
- All parts shown in this datasheet have gold plating thickness of 10 micro-inch (min.) over contact area. Advance options including 30 micro-inch (min.) and 50 micro-inch (min.) are also available.

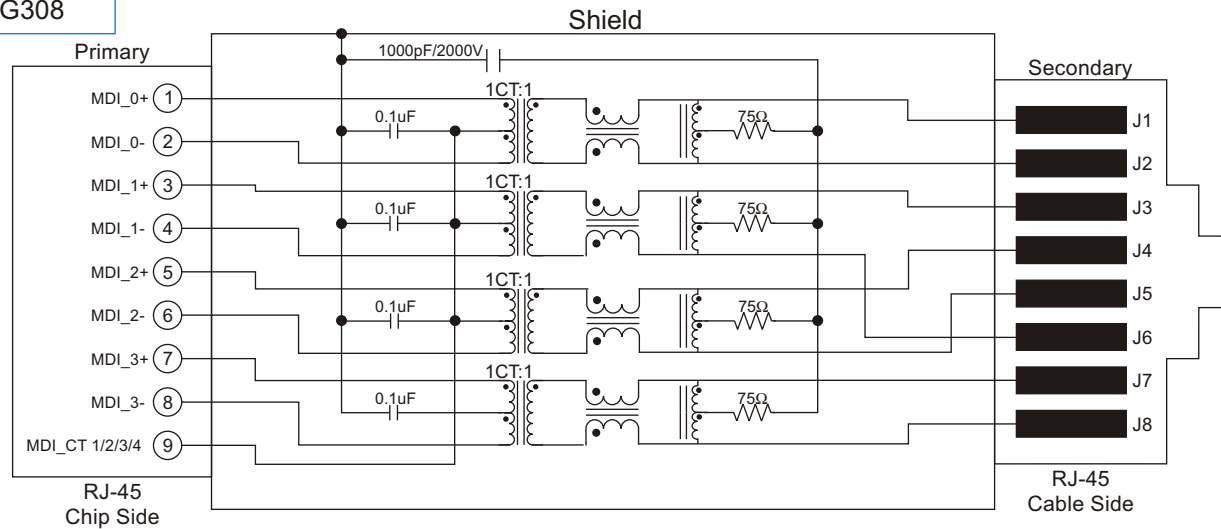
MATERIALS

Housing	Consist of thermoset & thermoplastic materials, all of them are UL 94-V0 rated.
Contact Pins ⁶	Phosphor bronze, plated with nickel under-plating and hard gold over contact area.
PCB Pins	Copper wire which meets solderability requirements per MIL-STD-202, method 208.

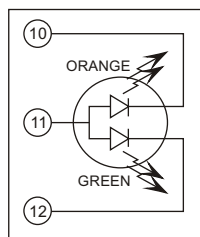


SCHEMATICS

G308



LEDs COLOR AND POLARITY



COLOR	POLARITY		COLOR	POLARITY	
	PIN 11	PIN 12		PIN 11	PIN 10
GREEN	+	-	ORANGE	+	-

LED SPECIFICATION @25°C, FORWARD CURRENT = 20mA

Standard Color	Typical Wavelength (nm)	Forward Voltage (volt)	
		Typical	Maximum
Green	565	2.2	2.5
Orange	607	2.05	2.5

FOR MORE INFORMATION, PLEASE CONTACT

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