










-  Magnetic Integrated Connector Modules
-  Compliant with IEEE802.3af standard including 350μH OCL with 8mA DC Bias
-  1500Vrms isolation voltage per IEEE802.3af
-  350mA balanced DC line current capability
-  Designed for Power over Ethernet (PoE) enabled Switch / Router / Hub applications
-  Enhanced performance on EMI suppression with metal shield
-  Operating temperature 0°C to +70°C
-  UL 1863 listed
-  RoHS compliant versions are available



GENERAL ELECTRICAL SPECIFICATION @ 25°C

Insertion Loss (dB Max)	Return Loss (dB Min)				CMRR (dB Min)			Crosstalk (dB Min)	Hipot (Vrms)	
	1-30MHz	40MHz	50MHz	60-80MHz	32MHz	62MHz	100MHz			
0.1-100MHz	1.2	16.0	14.0	13.0	12.0	42.0	37.0	33.0	33.0	1500

PART NUMBER TABLE

Part Number ¹	RoHS Part Number	Turn Ratio (Chip : Cable) (±3%)		Configuration ²		LED ³ (Left / Right)	Mechanical Package	Schematic
		Tx	Rx	Tx	Rx			
MJ-11U2NNA8-VB110	MJR11U2NNA8-VB110	1CT:1CT	1CT:1CT	TS	TS	—	MJ11U-09A	VB110
MJ-11U2GYA8-VB110	MJR11U2GYA8-VB110	1CT:1CT	1CT:1CT	TS	TS	G / Y	MJ11U-09B	VB110

Notes:

- 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 ; “S” = Shared Common-mode choke
- LEDs (Left / Right) : “G” = Green ; “Y” = Yellow ; “—” = None. 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.

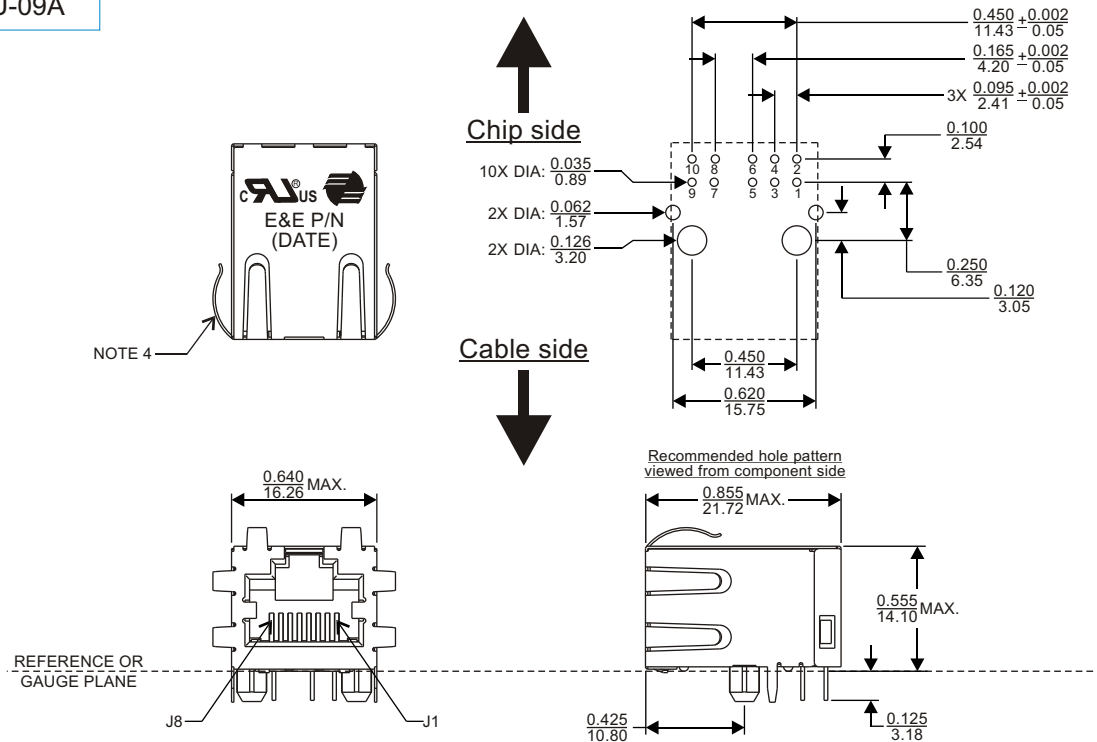
MATERIALS

Housing	Consist of thermoset & thermoplastic materials, all of them are UL 94-V0 rated.
Contact Pins ⁵	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.

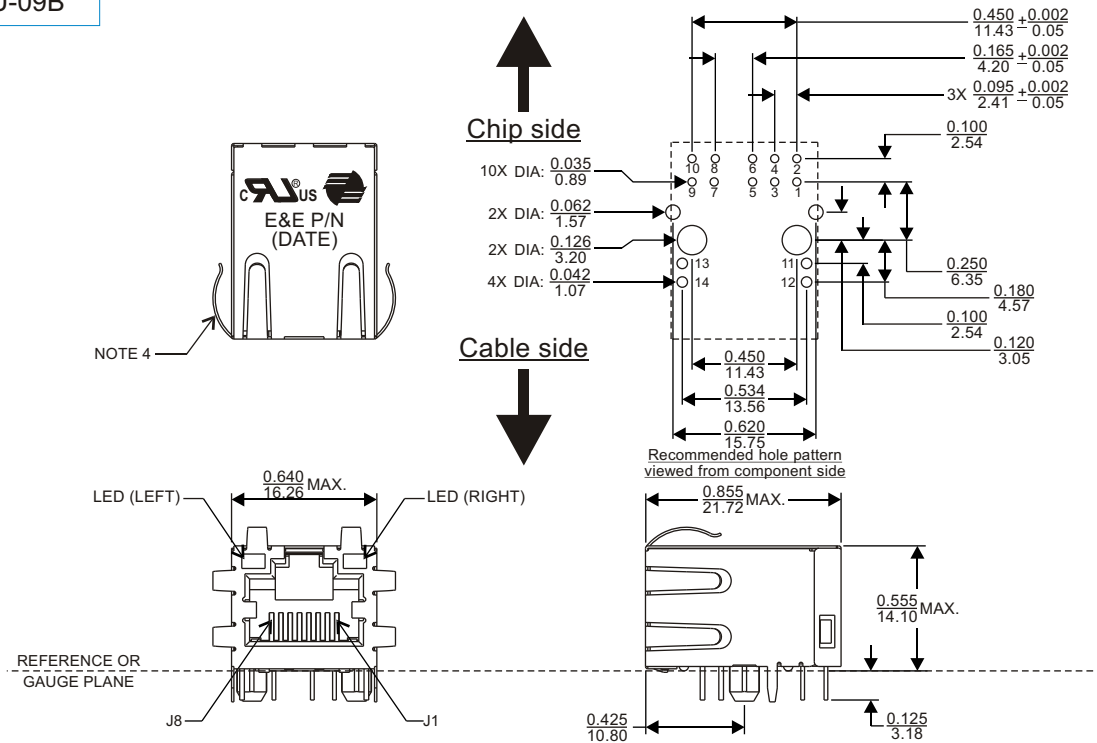


MECHANICAL DIMENSIONS

MJ11U-09A



MJ11U-09B



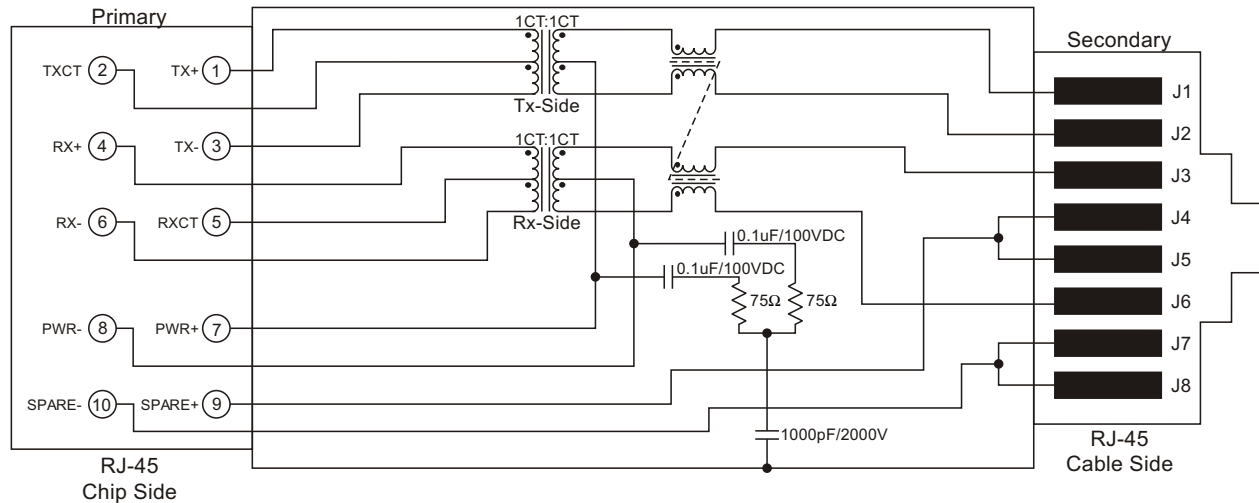
All dimensions are specified in $\frac{\text{inch}}{\text{mm}}$ with higher precedence in inch.

Unless otherwise specified, all tolerances are $\pm \frac{0.010}{0.25}$.



SCHEMATICS

VB110



LEDs COLOR AND POLARITY

MJ11U-09B	LED (LEFT)		LED (RIGHT)			
	COLOR	POLARITY		COLOR	POLARITY	
		PIN 13	PIN 14		PIN 11	PIN 12
LED (RIGHT)	GREEN	+	-	YELLOW	+	-
LED (LEFT)						

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

Standard Color	Typical Wavelength (nm)	Forward Voltage (volt)	
		Typical	Maximum
Green	565	2.2	2.5
Yellow	590	2.1	2.5

FOR MORE INFORMATION, PLEASE CONTACT

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