








-  Magnetic Integrated Connector Modules
-  1500Vrms isolation voltage per IEEE802.3
-  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
-  RoHS compliant



GENERAL ELECTRICAL SPECIFICATION @ 25°C

Insertion Loss (dB Max)		Return Loss ¹ (dB Min)		CMRR (dB Min)	Crosstalk (dB Min)	Hipot (Vrms)
1-100MHz	100-125MHz	1-40MHz	40-100MHz	0.1-100MHz	0.1-100MHz	
1.0	1.5	18.0	12-20Log(F/80)	30.0	30.0	1500

PART NUMBER TABLE

RoHS Part Number ²	Turn Ratio (Chip : Cable) (±3%)	Configuration ³	LED ⁴ (Left / Right)	Mechanical Package	Schematic
MJF11U2GYAA-EB004	1CT:1CT	CT	G / Y	MJ11U-11A	EB004
MJF11U2GYAA-EBB05	1CT:1CT	TS	G / Y	MJ11U-11A	EBB05
MJF11U2NNAA-EB004	1CT:1CT	CT	—	MJ11U-11B	EB004
MJF11U2NNAA-EBB05	1CT:1CT	TS	—	MJ11U-11B	EBB05

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 ; "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.

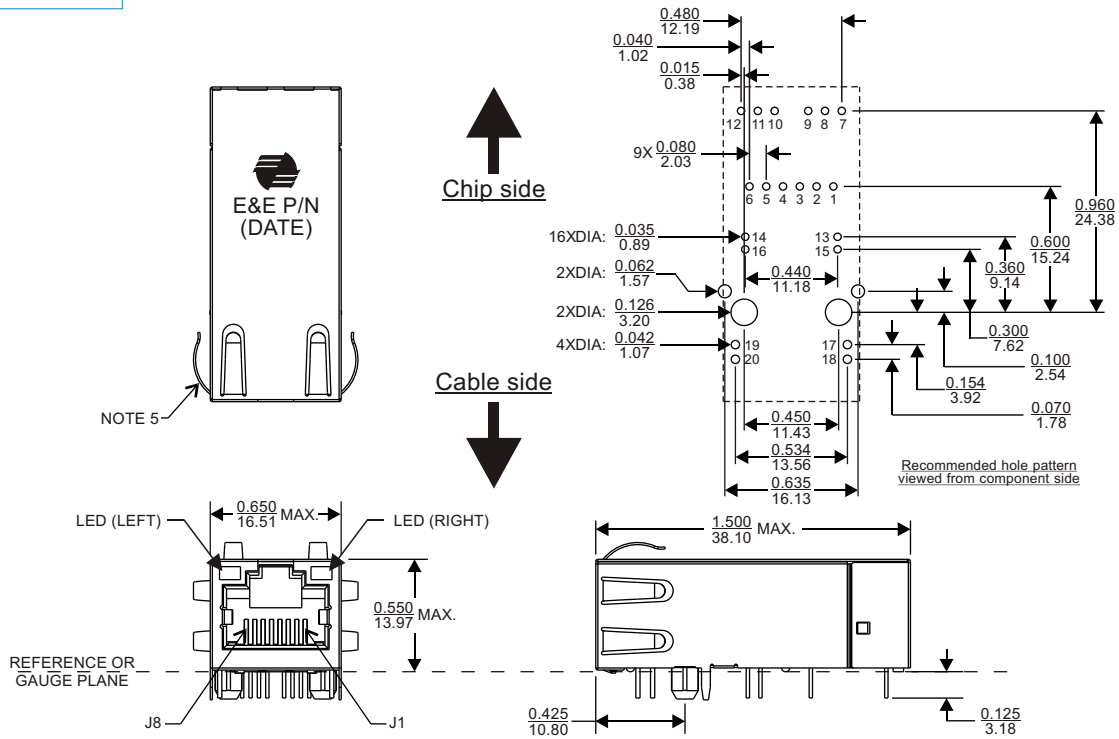
MATERIALS

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

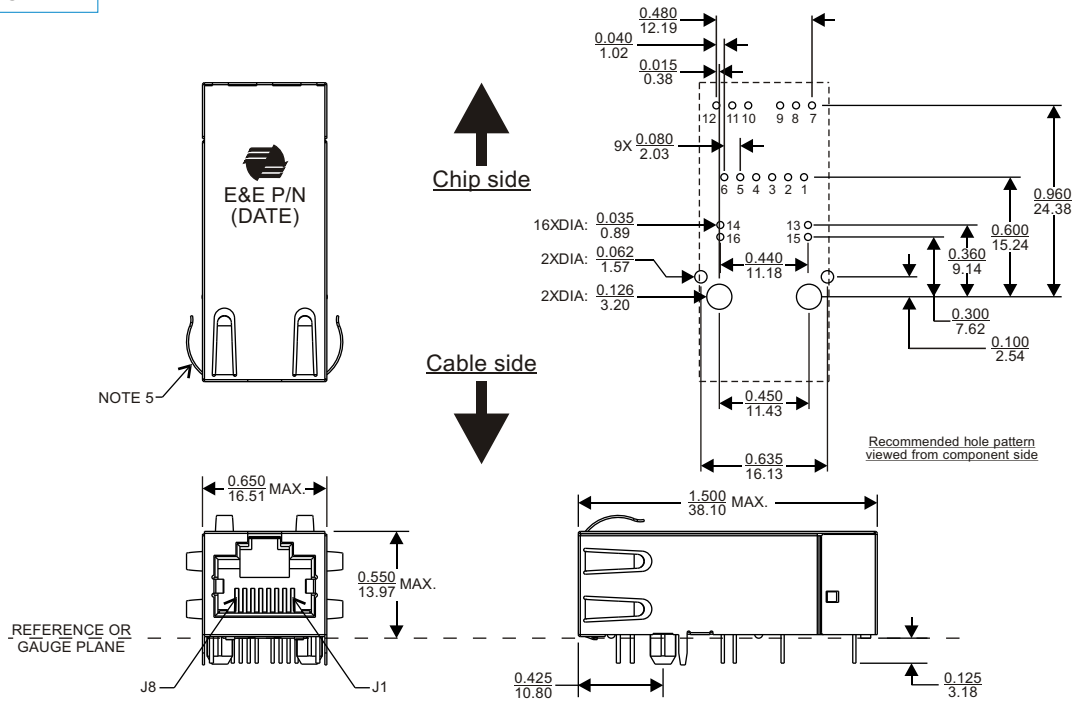


MECHANICAL DIMENSIONS

MJ11U-11A



MJ11U-11B

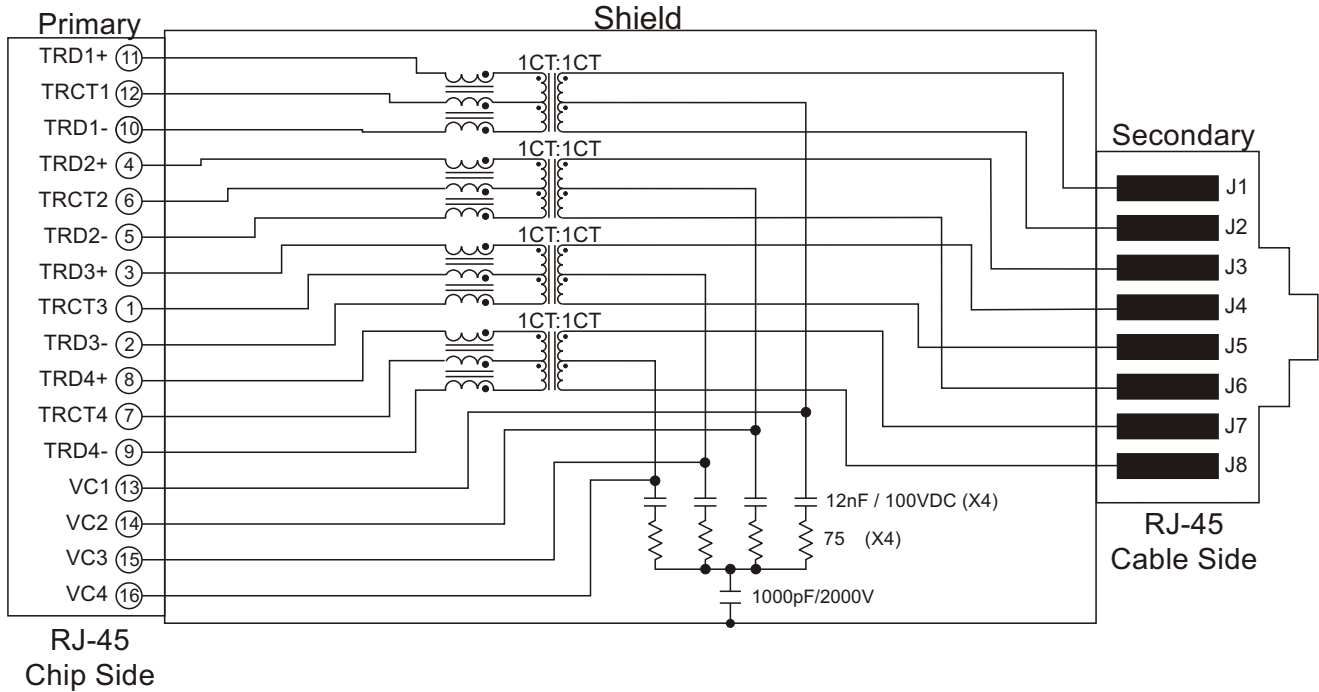


All dimensions are specified in $\frac{\text{inch}}{\text{mm}}$ with higher precedence in inch.

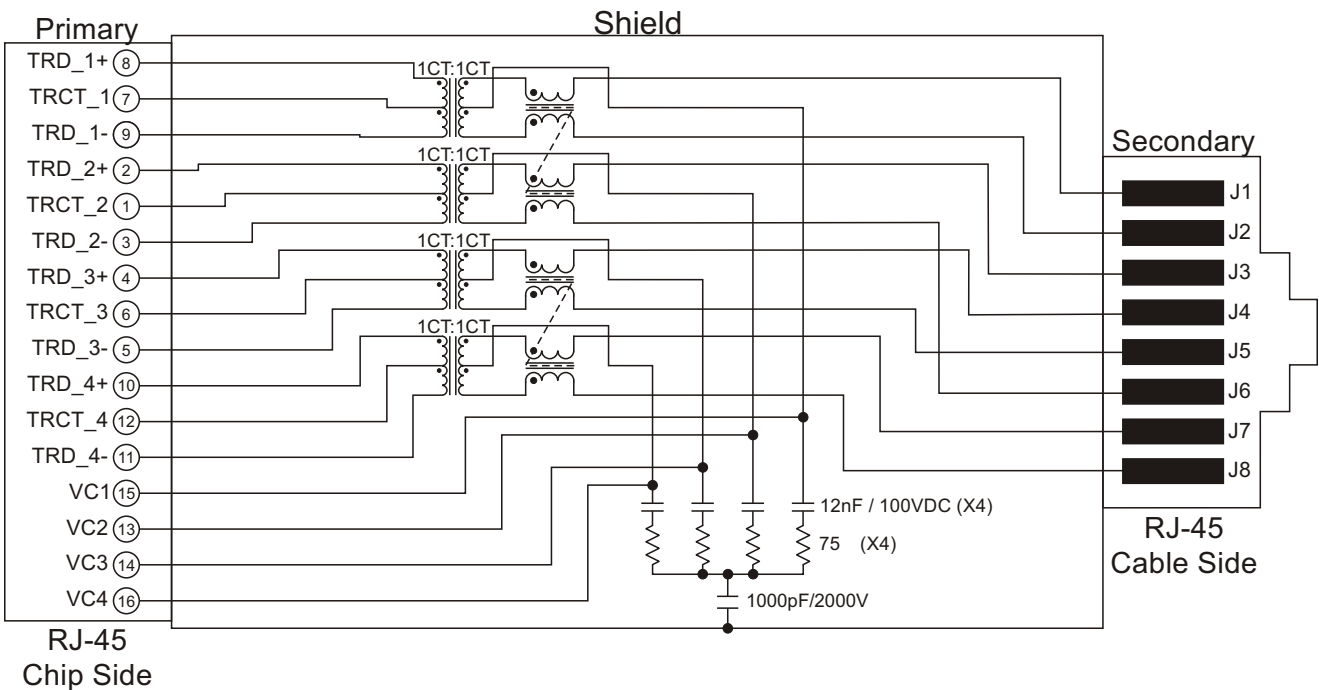
Unless otherwise specified, all tolerances are $\pm \frac{0.010}{0.25}$.

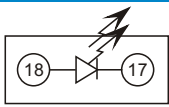
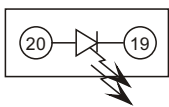
SCHEMATICS

EB004



EBB05



LEDs COLOR AND POLARITY							
MJ11U-11A		LED (LEFT)			LED (RIGHT)		
LED (RIGHT)		COLOR	POLARITY		COLOR	POLARITY	
			PIN 20	PIN 19		PIN 18	PIN 17
LED (LEFT)		GREEN	+	-	YELLOW	+	-

LED SPECIFICATION @25°C, FORWARD CURRENT = 20mA		
Standard Color	Typical Wavelength (nm)	Forward Voltage (volt)
		Typical
Green	565	2.2
Yellow	590	2.1

FOR MORE INFORMATION, PLEASE CONTACT

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