








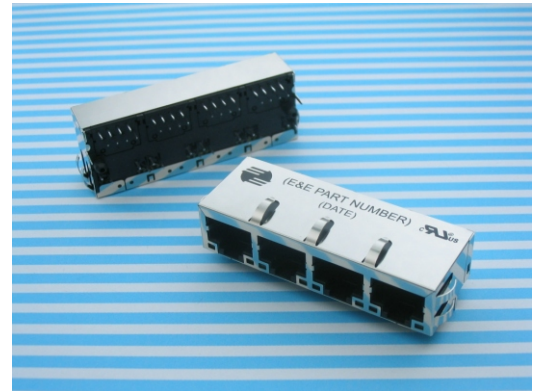


-  Magnetic Integrated Connector Modules
-  Compliant with IEEE802.3 standard including 350μH OCL with 8mA DC Bias
-  1500Vrms isolation voltage per IEEE802.3
-  Enhanced performance on EMI suppression with metal shield
-  Support various 10/100 transceiver ICs
-  Operating temperature 0°C to +70°C
-  Gang 1x4 design for Hub and Switch Applications
-  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	1-30MHz	40MHz	50MHz	60-80MHz	32MHz	62MHz	100MHz	0.1-100MHz	
1.0	16.0	14.0	13.0	12.0	42.0	37.0	33.0	35.0	1500

PART NUMBER TABLE

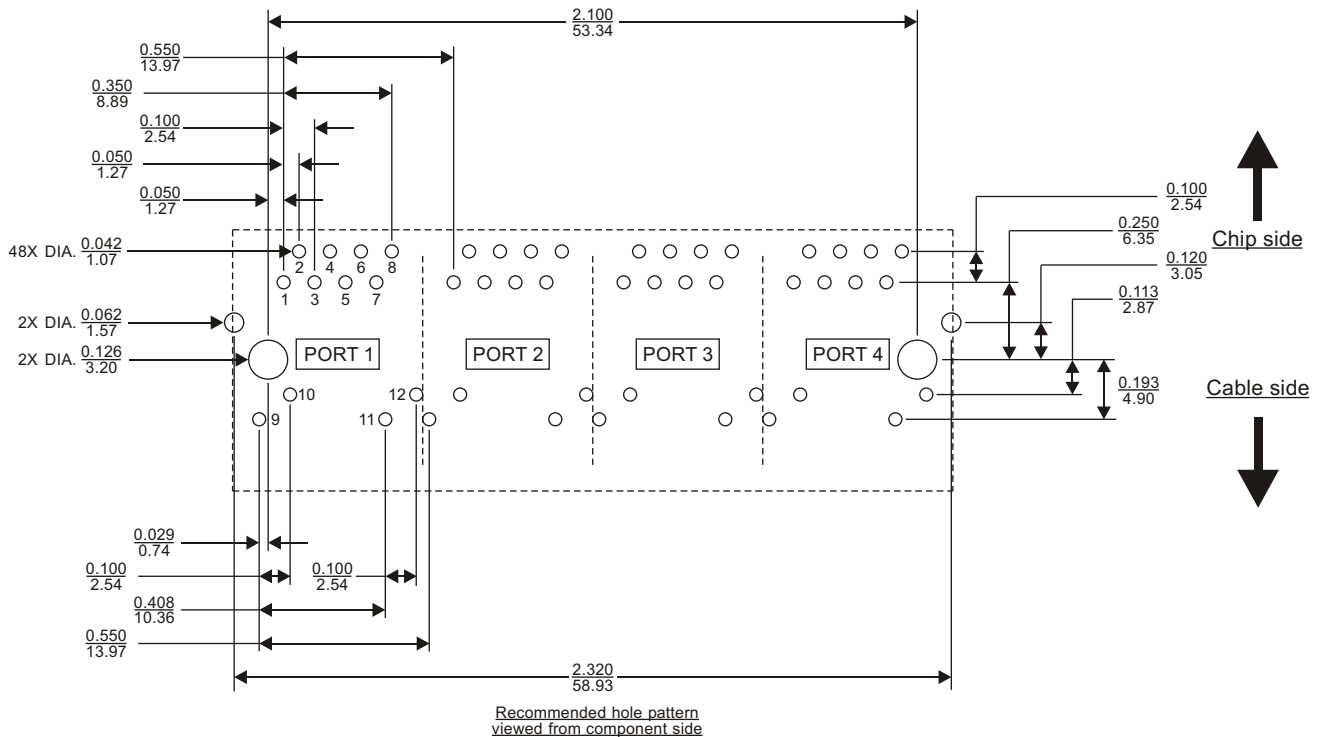
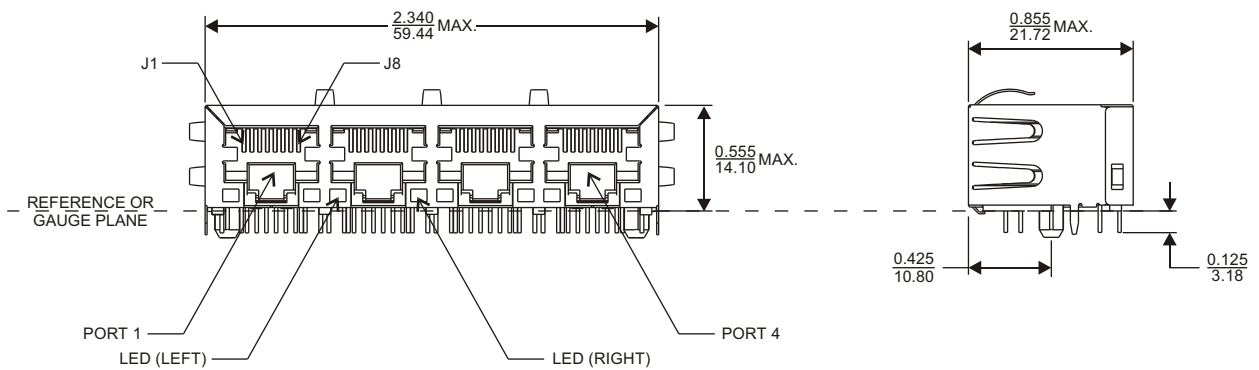
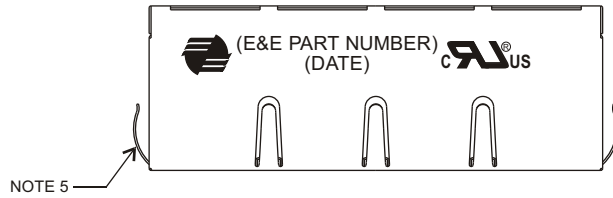
Part Number ¹	RoHS Part Number	Turn Ratio (Chip : Cable) (±3%)		Configuration ²		LED ³ (Left / Right)	Mechanical Package	Schematic
		Tx	Rx	Tx	Rx			
MJ-14D2GYA1-H152	MJR14D2GYA1-H152	1CT:1	1CT:1CT	TCA	CT	G / Y	MJ14D-01A	H152
MJ-14D2GYA1-H301	MJR14D2GYA1-H301	1CT:1	1CT:1CT	TCA	CT	G / Y	MJ14D-01A	H301
MJ-14D2GYA1-H33D	MJR14D2GYA1-H33D	1CT:1CT	1CT:1CT	TC	TC	G / Y	MJ14D-01A	H33D ⁴
MJ-14D2GYA1-K33D ⁷	MJR14D2GYA1-K33D	1CT:1CT	1CT:1CT	TC	TC	G / Y	MJ14D-01A	K33D ⁴
MJ-14D2NNA0-H152	MJR14D2NNA0-H152	1CT:1	1CT:1CT	TCA	CT	—	MJ14D-01C	H152
MJ-14D2NNA0-H301	MJR14D2NNA0-H301	1CT:1	1CT:1CT	TCA	CT	—	MJ14D-01C	H301
MJ-14D2NNA0-H33D	MJR14D2NNA0-H33D	1CT:1CT	1CT:1CT	TC	TC	—	MJ14D-01C	H33D ⁴
MJ-14D2NNA0-K33D ⁷	MJR14D2NNA0-K33D	1CT:1CT	1CT:1CT	TC	TC	—	MJ14D-01C	K33D ⁴

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 ; "C" = Common-mode choke ; "A" = Auto-transformer
- LEDs (Left / Right) : "G" = Green ; "Y" = Yellow ; "—" = None. For different LED color requirements, please contact E&E Magnetic Products Limited.
- Schematic H33D, K33D are suitable for Auto MDI/MDIX applications.
- 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.
- Operating temperature: -40°C to +85°C.

MECHANICAL DIMENSIONS

MJ14D-01A



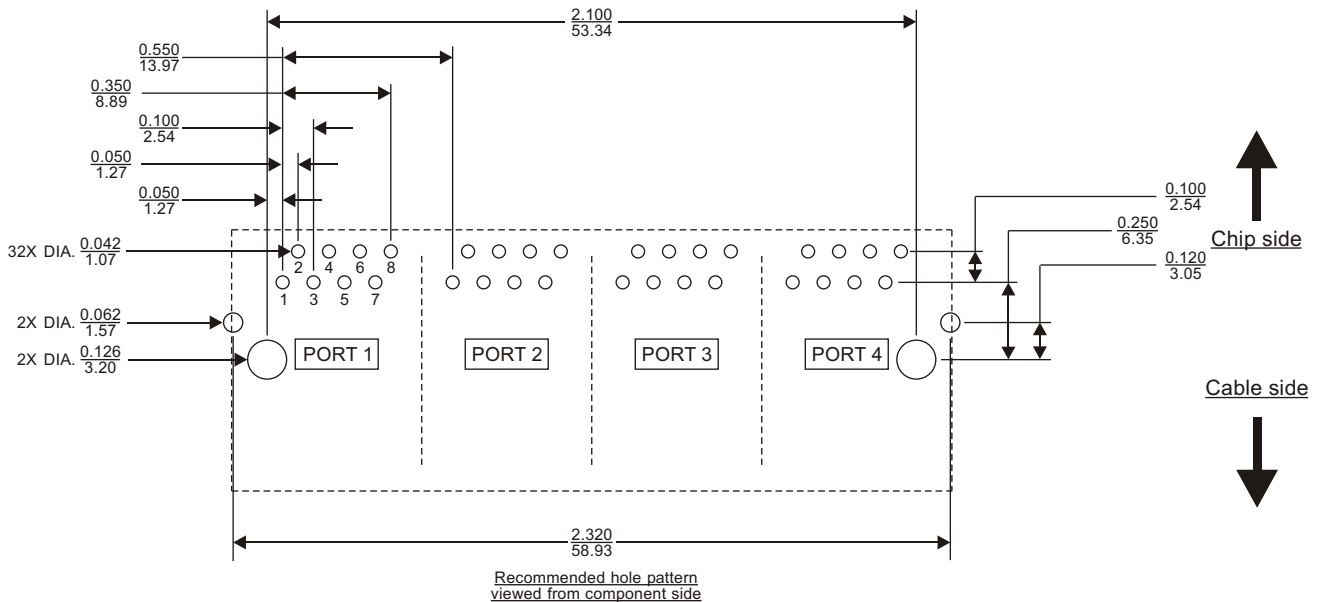
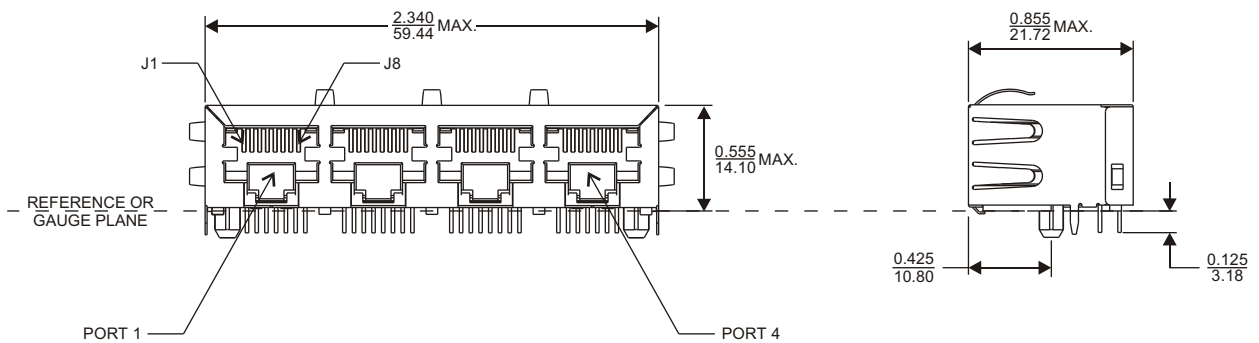
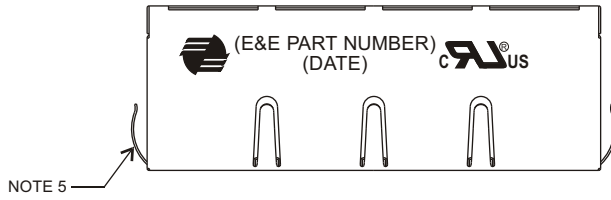
All dimensions are specified in $\frac{\text{inch}}{\text{mm}}$ with higher precedence in inch.

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



MECHANICAL DIMENSIONS

MJ14D-01C



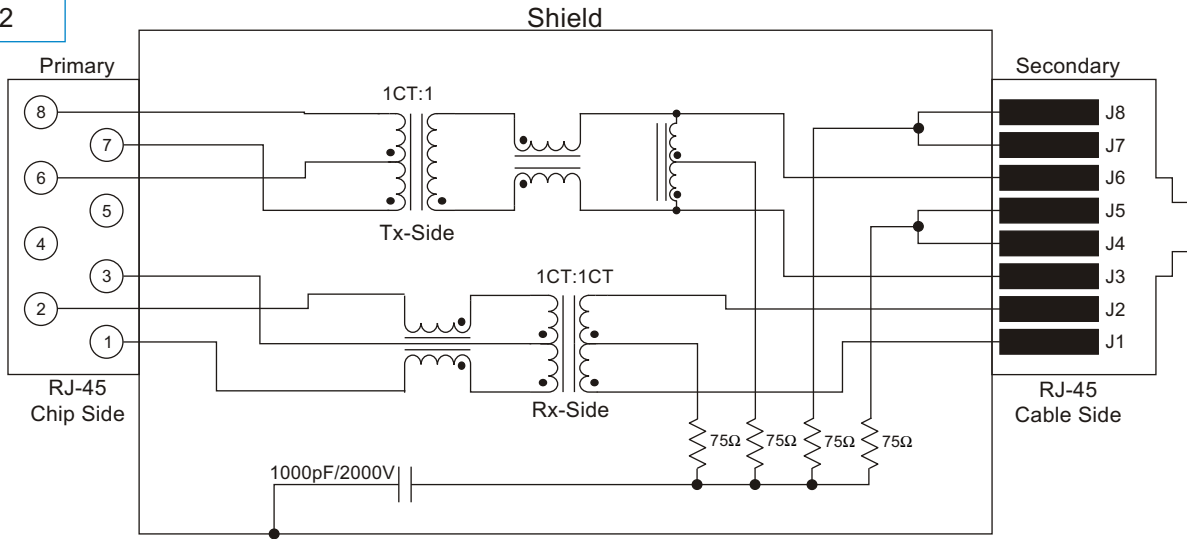
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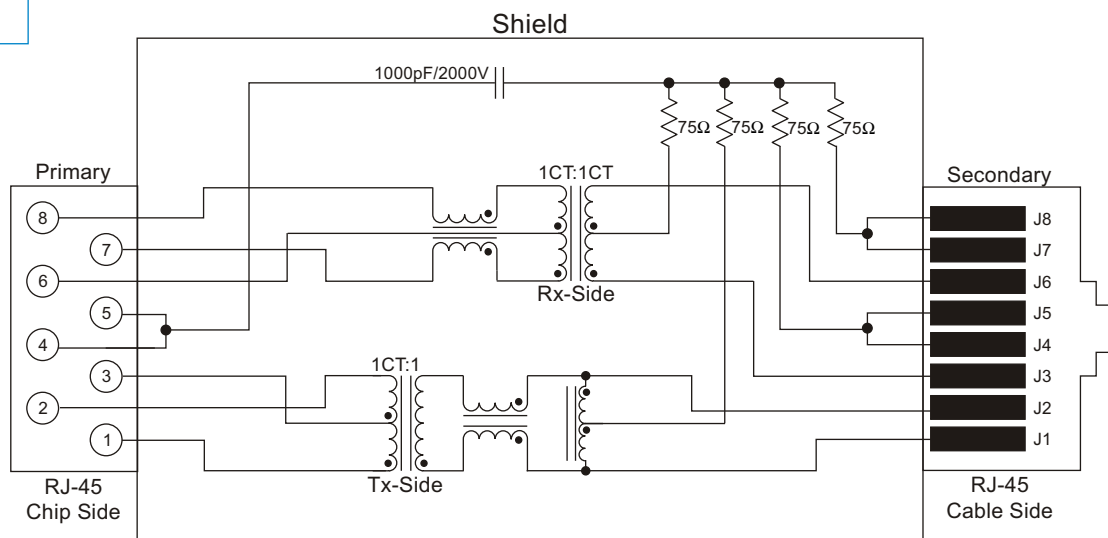


SCHEMATICS

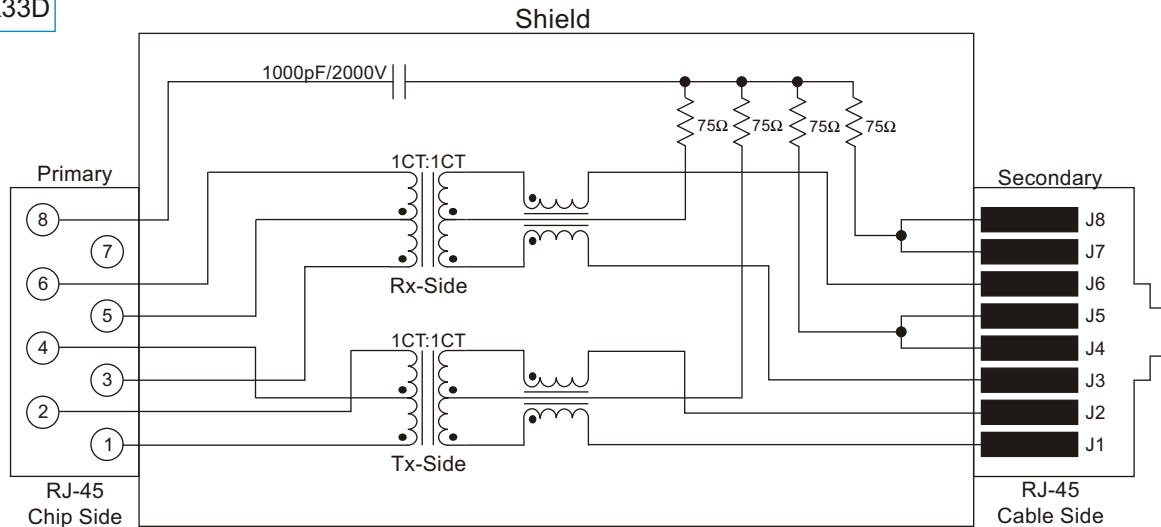
H152



H301



H33D / K33D





LEDs COLOR AND POLARITY						
MJ14D-01A	LED (LEFT)			LED (RIGHT)		
	COLOR	POLARITY		COLOR	POLARITY	
		PIN 9	PIN 10		PIN 12	PIN 11
LED (RIGHT)	GREEN	+	-	YELLOW	+	-
LED (LEFT)	GREEN	+	-	YELLOW	+	-

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

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.

FOR MORE INFORMATION, PLEASE CONTACT

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