










-  Magnetic Integrated Connector Modules
-  Compliant with IEEE802.3af standard including 350µH OCL with 8mA DC Bias
-  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
-  UL 1863 listed
-  RoHS compliant versions are available



#### GENERAL ELECTRICAL SPECIFICATION @ 25°C

Insertion Loss (dB Max)	Return Loss (dB Min)		Crosstalk (dB Min)	Hipot (Vrms)
	0.1-100MHz	40-100MHz		
1.5	16.0	10.0	30.0	1500

#### PART NUMBER TABLE

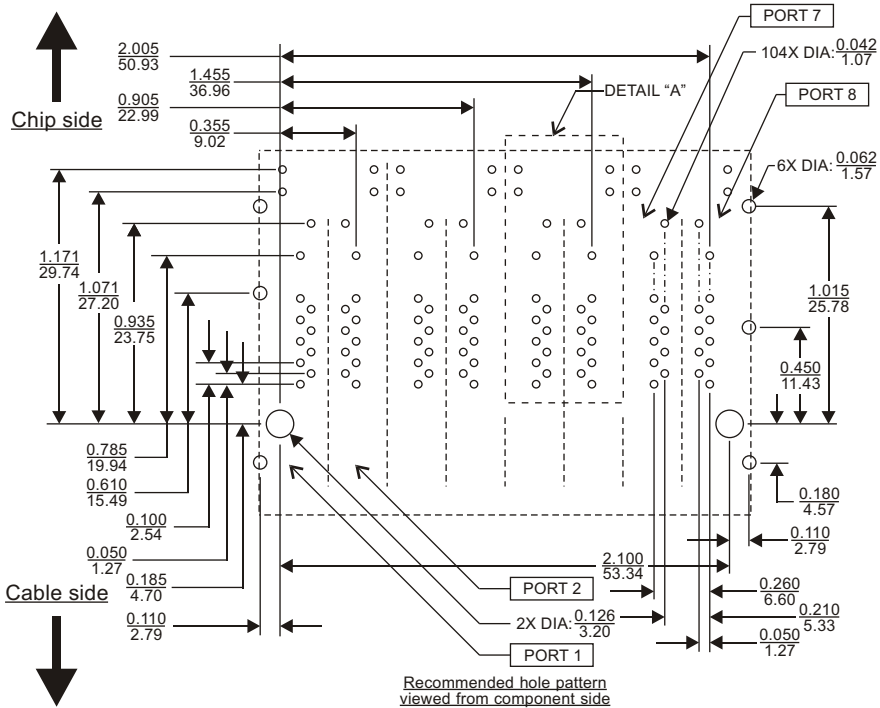
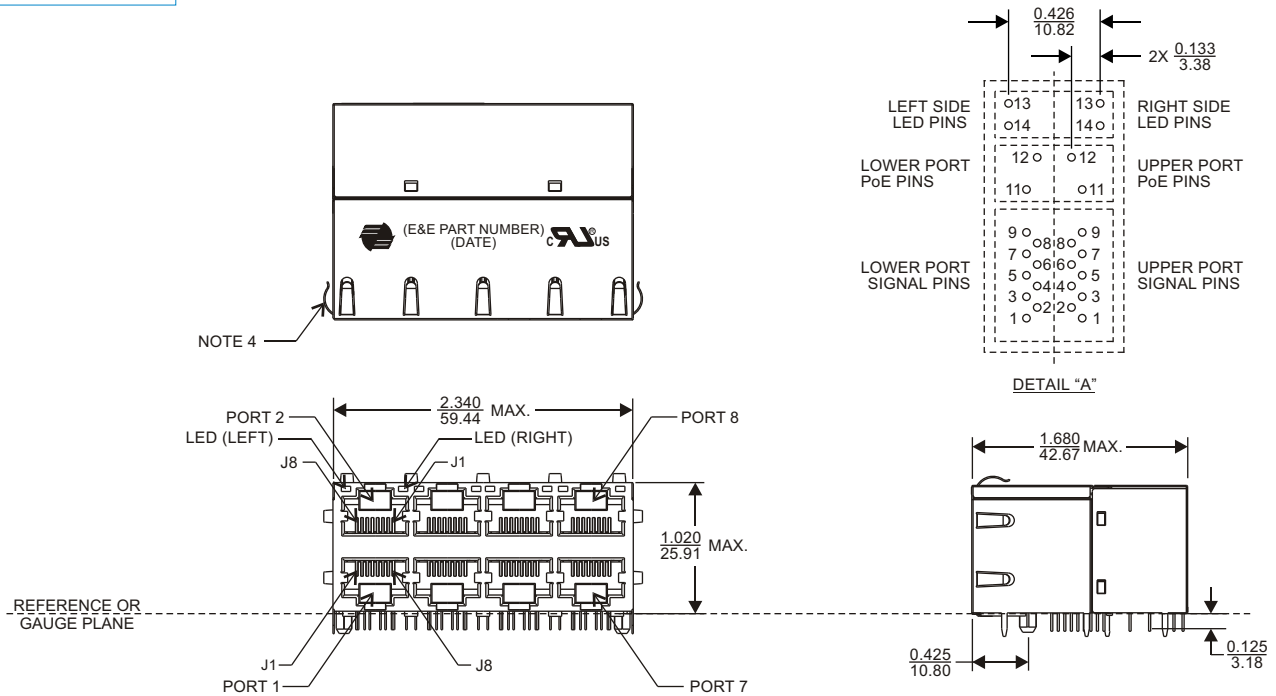
Part Number <sup>1</sup>	RoHS Part Number	Turn Ratio (±3%) (Chip : Cable)	Configuration <sup>2</sup>	LED <sup>3</sup> (Left / Right)	Mechanical Package	Schematic
MJ-24N2DDA3-E7102	MJR24N2DDA3-E7102	1CT:1	TCA	D / D	MJ24N-07B	E7102
MJ-26N2DDA3-E7102	MJR26N2DDA3-E7102	1CT:1	TCA	D / D	MJ26N-07B	E7102
MJ-28N2DDA3-E7102	MJR28N2DDA3-E7102	1CT:1	TCA	D / D	MJ28N-07B	E7102

#### Notes:

1. For different electrical and mechanical specifications, please contact E&E Magnetic Products Limited.
2. Core location are counted from PCB (Chip) side to Cable (Media) side, where:  
"T" = Isolation transformer ; "C" = Common-mode choke ; "A" = Auto-transformer .
3. LEDs (Left / Right) : "D" = Orange & Green bi-color (2 terminals type). For different LED color requirements, please contact E&E Magnetic Products Limited.
4. Panel tabs are optional.
5. 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.

MECHANICAL DIMENSIONS

MJ24N-07B



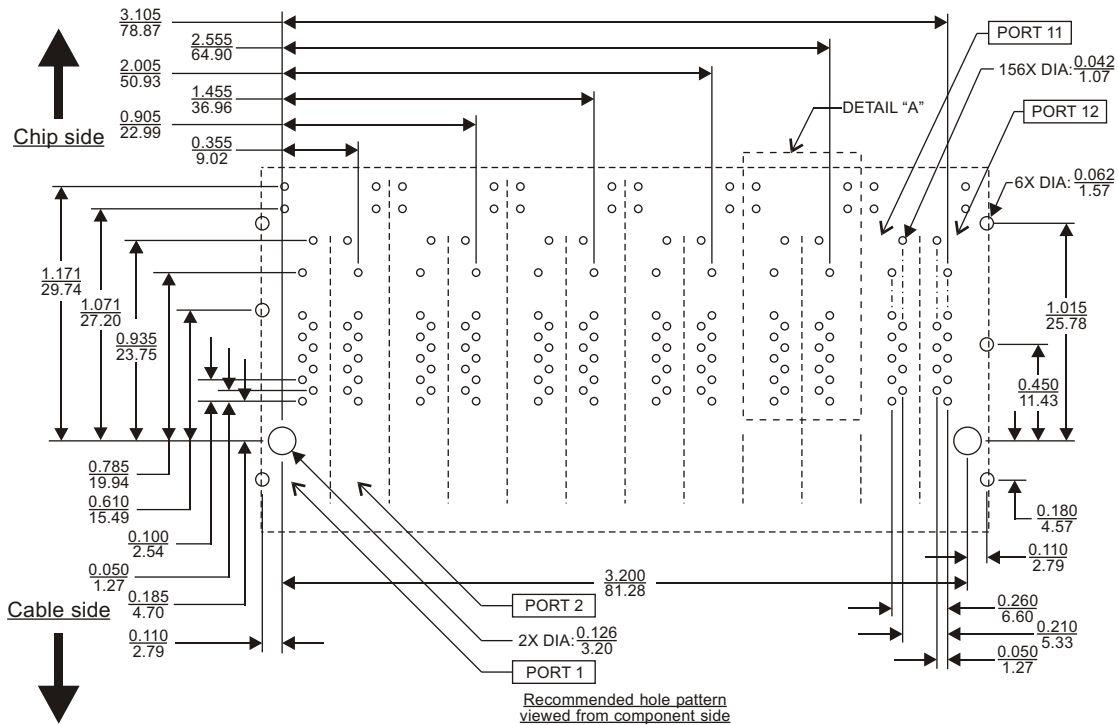
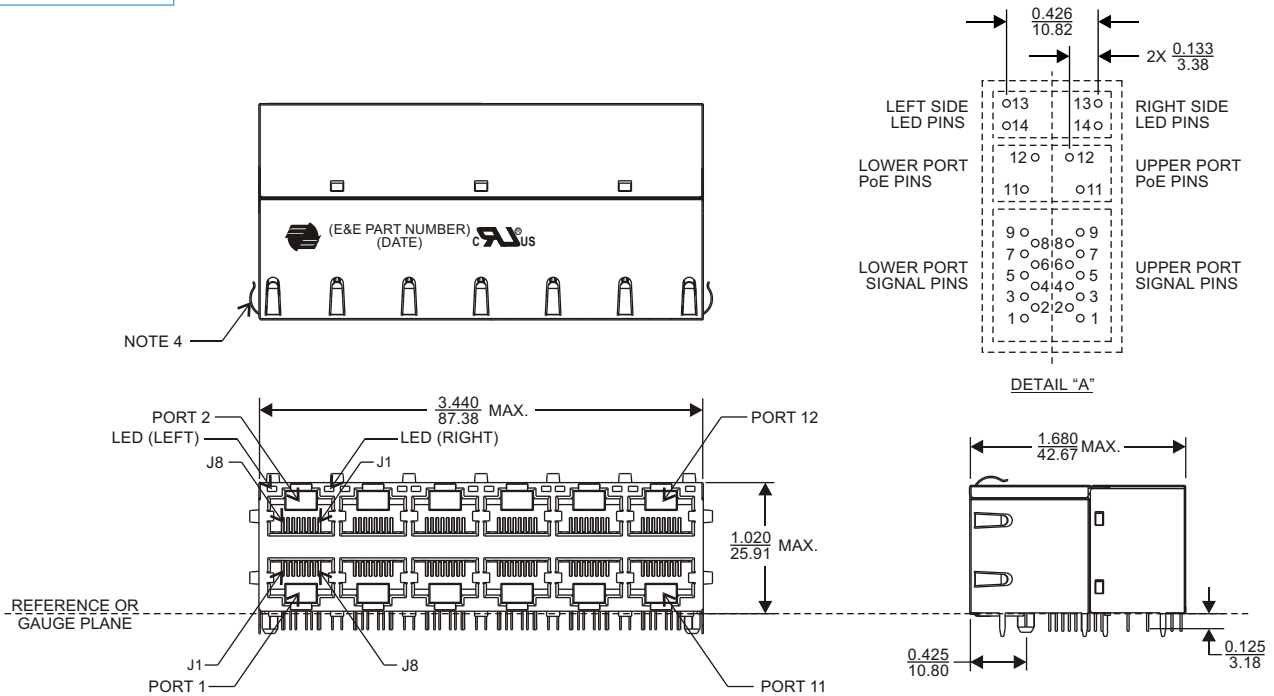
All dimensions are specified in  $\frac{\text{inch}}{\text{mm}}$  with higher precedence in inch.

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



**MECHANICAL DIMENSIONS**

MJ26N-07B

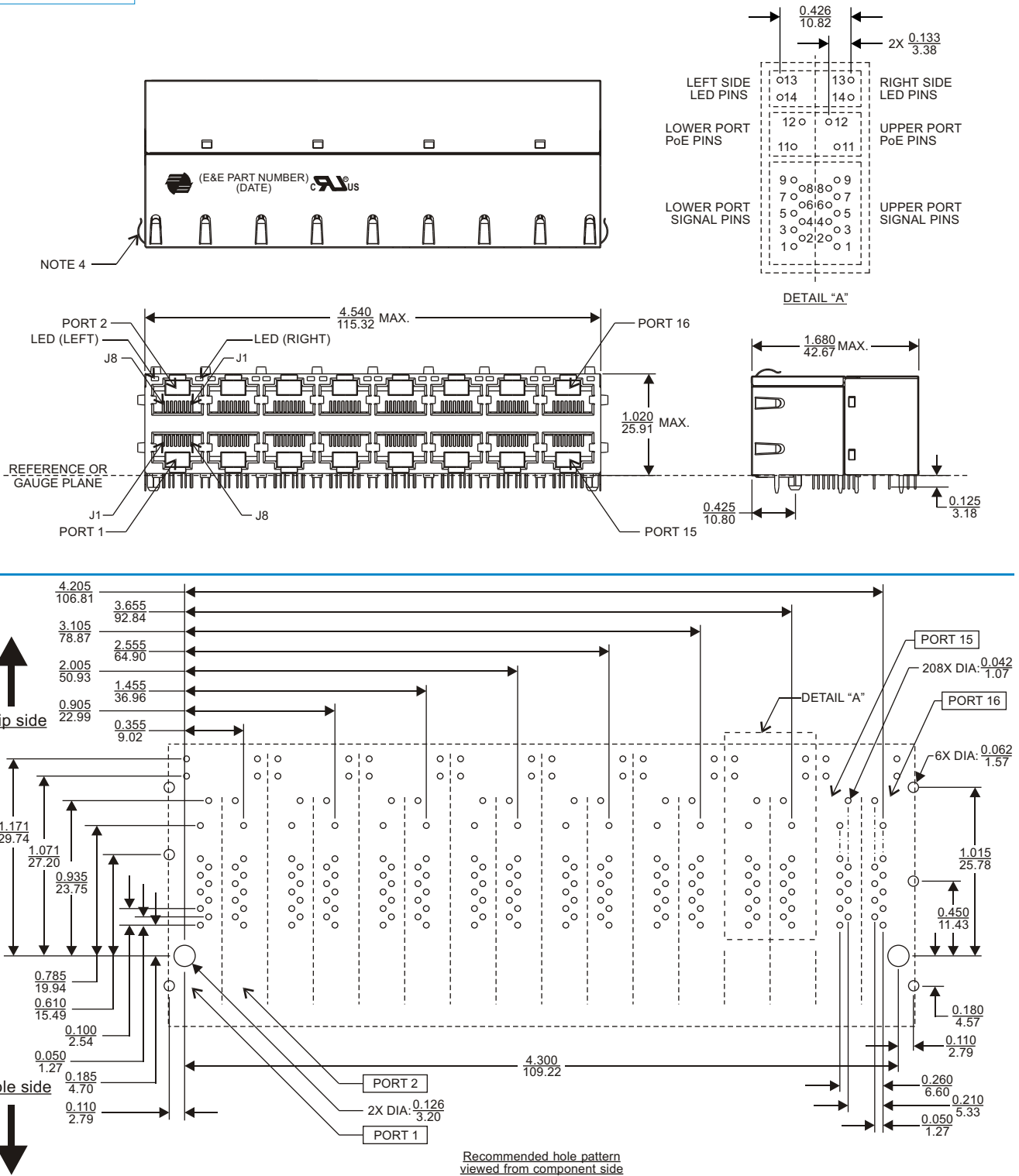


All dimensions are specified in  $\frac{\text{inch}}{\text{mm}}$  with higher precedence in inch.

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

MECHANICAL DIMENSIONS

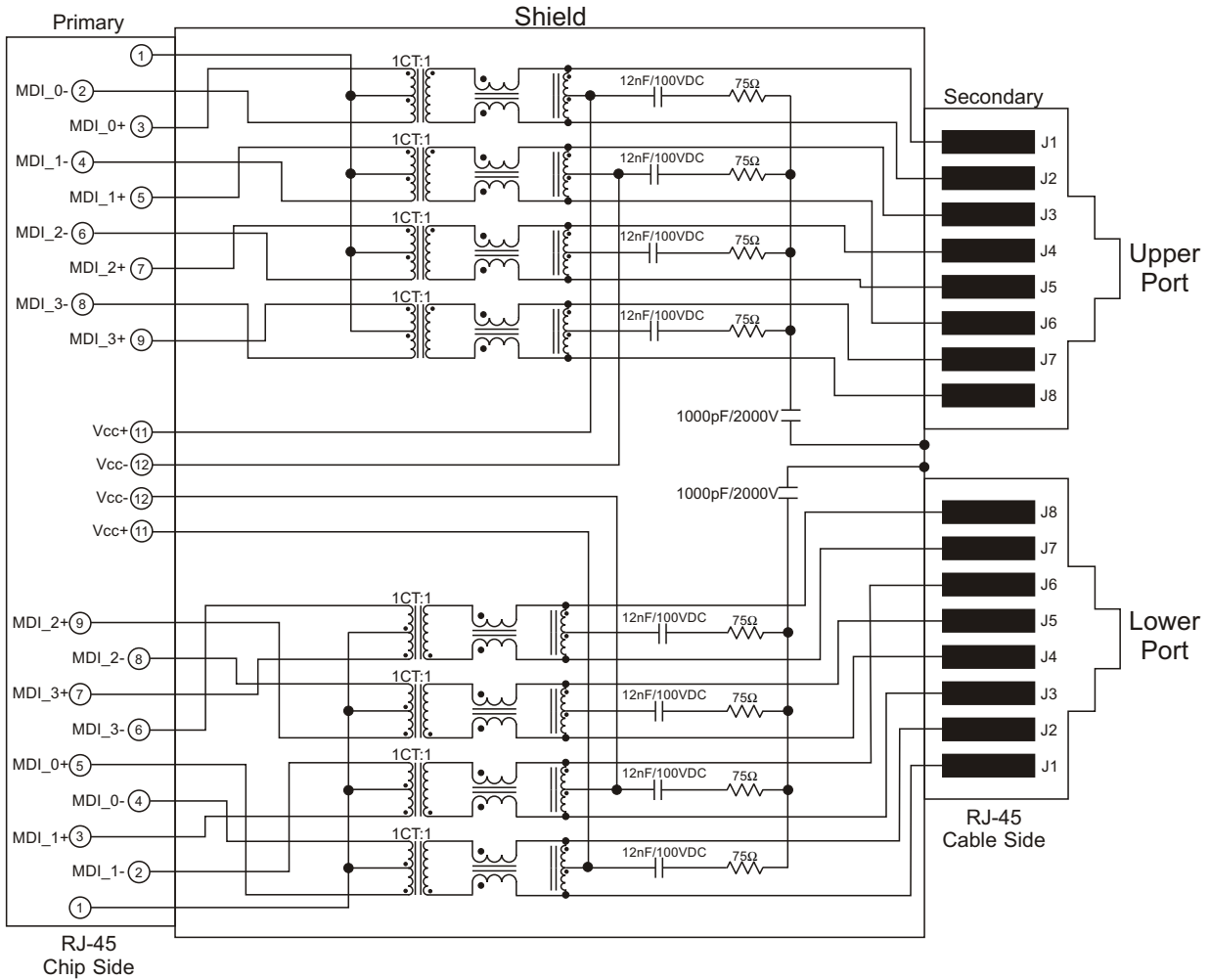
MJ28N-07B



All dimensions are specified in  $\frac{\text{inch}}{\text{mm}}$  with higher precedence in inch.  
Unless otherwise specified, all tolerances are  $\pm \frac{0.010}{0.25}$ .

SCHMATICS (EACH PAIR PORT)

E7102



MATERIALS

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

HEADQUARTER  
2/F Block A, Merit Industrial Centre,  
94 Tokwan Road, Kowloon,  
Hong Kong  
Tel: (852) 2765 3888  
Fax: (852) 2954 3304  
Email: eempl@eleceltek.com  
Website: <http://www.eleceltek.com>

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