









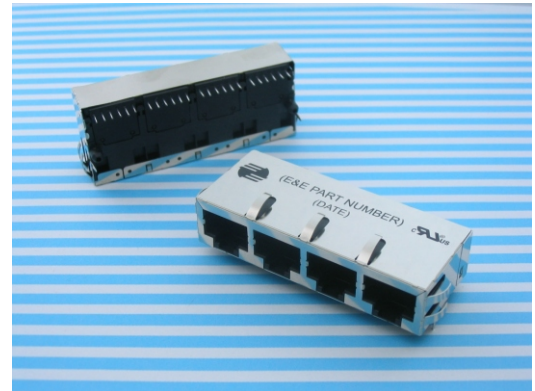


-  Magnetic Integrated Connector Modules
-  Compliant with IEEE802.3 standard including 350μH OCL with 8mA DC Bias
-  1500Vrms isolation voltage per IEEE802.3
-  Enhanced performance on EMI suppression with metal shield
-  Support various 10/100 transceiver ICs
-  Operating temperature 0°C to +70°C
-  Gang 1x4 design for Hub and Switch Applications
-  Symmetrical TX and RX channels which is suitable for Auto MDI/MDIX application
-  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 | 1500 |
| 1.0 | 16.0 | 14.0 | 13.0 | 12.0 | 42.0 | 37.0 | 33.0 | 35.0 | |

PART NUMBER TABLE

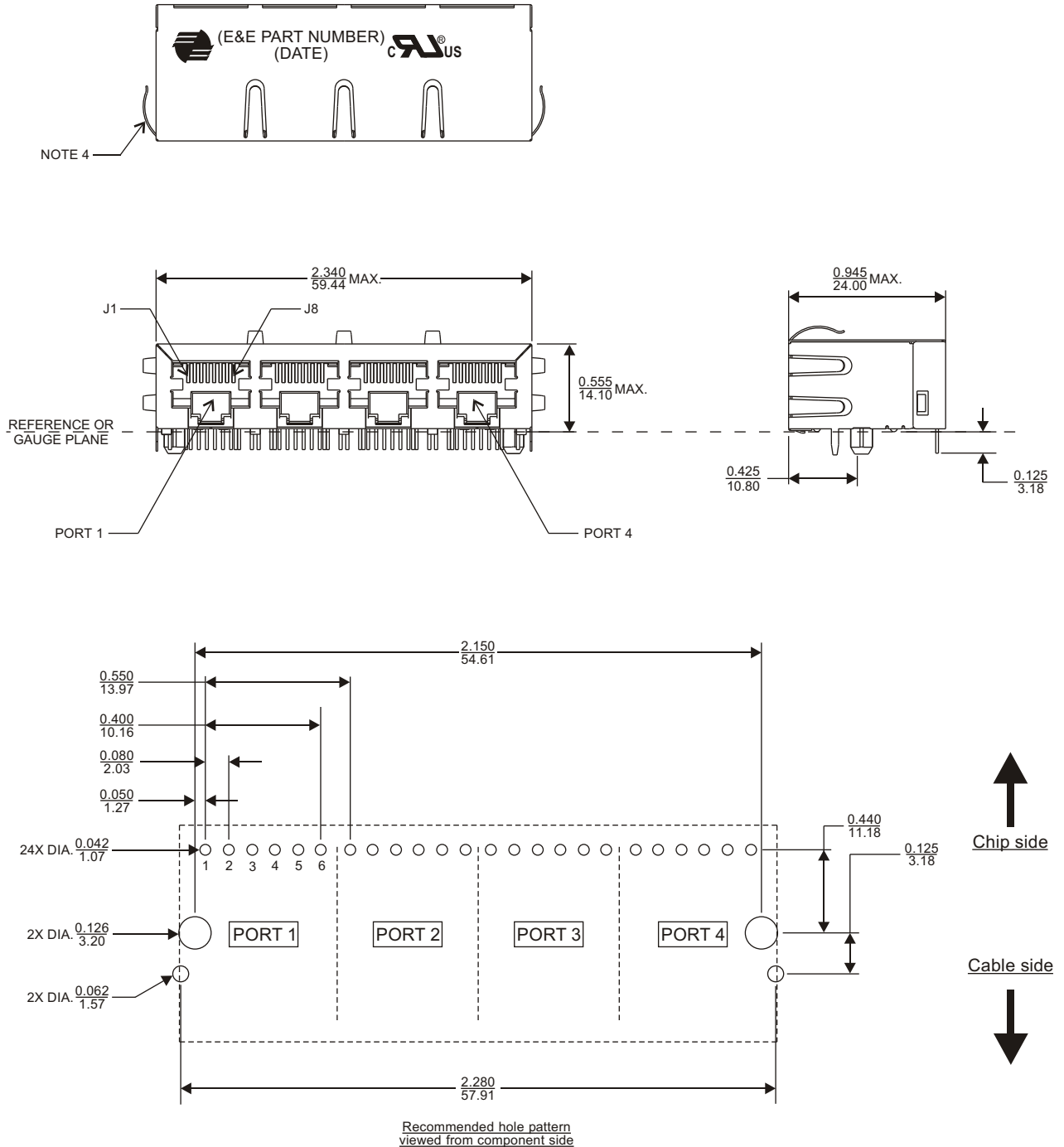
| Part Number ¹ | RoHS Part Number | Turn Ratio (Chip : Cable) (±3%) | | Configuration ² | | LED ³ (Left / Right) | Mechanical Package | Schematic |
|-------------------------------|------------------|------------------------------------|---------|----------------------------|----|------------------------------------|-----------------------|-----------|
| | | Tx | Rx | Tx | Rx | | | |
| MJ-14D2NNA4-H34K | MJR14D2NNA4-H34K | 1CT:1CT | 1CT:1CT | TC | TC | — | MJ14D-04A | H34K |
| MJ-14D2NNA4-K34K ⁶ | MJR14D2NNA4-K34K | 1CT:1CT | 1CT:1CT | TC | TC | — | MJ14D-04A | K34K |

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 ;
3. LEDs (Left / Right) : "—" = None.
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.
6. Operating temperature: -40°C to +85°C.

MECHANICAL DIMENSIONS

MJ14D-04A



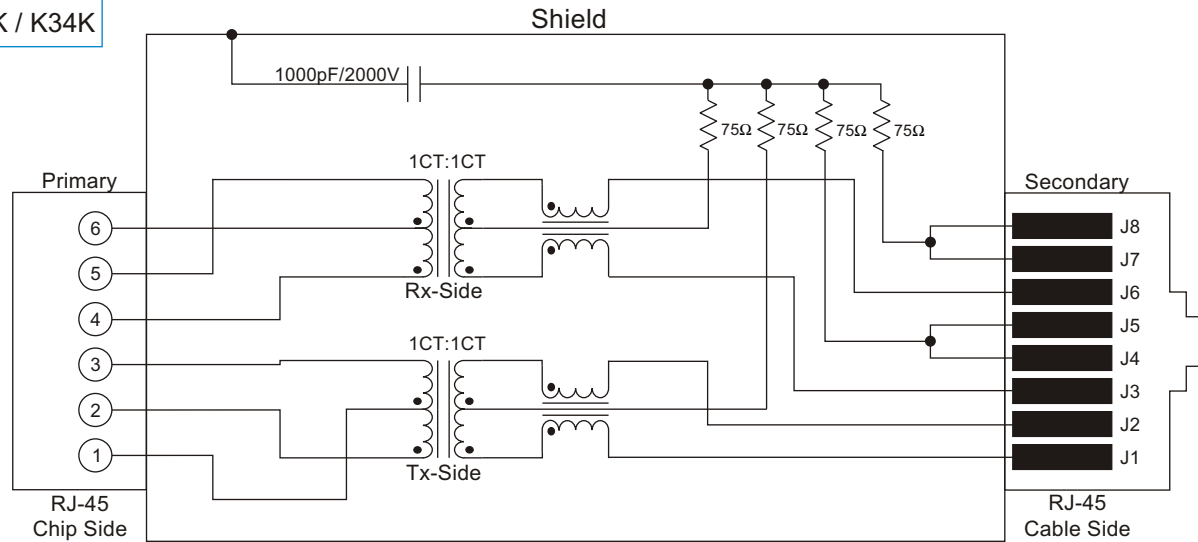
All dimensions are specified in $\frac{\text{inch}}{\text{mm}}$ with higher precedence in inch.

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



SCHEMATICS

H34K / K34K



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. |

FOR MORE INFORMATION, PLEASE CONTACT

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