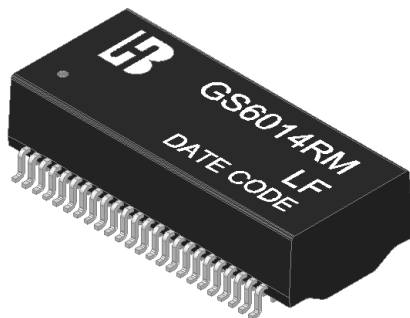


**Feature**



- Designed for Ethernet 100/1000 BASE-T, full duplex applications.
- Supports 8 pairs of category 5 UTP cable.
- Cable interface for isolation and low common mode emissions.
- Complying with IEEE 802.3ab standard for 1000 BASE-T.
- IEEE 802.3at/ANSI X3.263 compliant performance.
- POE applications with 600mA current capability.
- Complying with ROHS & Halogen Free requirements.
- Operating temperature range: -40°C to +85°C.
- Storage temperature range: -40°C to +85°C.

**Electrical Specifications @ 25°C**

| Part Number | Turns Ratio (±5%) |         | OCL (uH Min)<br>@100KHz/0.1 V<br>with 8mA DC Bias | L.L (uH Max) | C <sub>w/w</sub> (pF Max) | DCR (Ω Max) | HI-POT      |
|-------------|-------------------|---------|---|--------------|---------------------------|-------------|-------------|
|             | TX                | RX      |   |              |                           |             |             |
| GS6014RM LF | 1CT:1CT           | 1CT:1CT | 350   | 0.5          | 28                        | 1.1         | AC1500V/1mA |

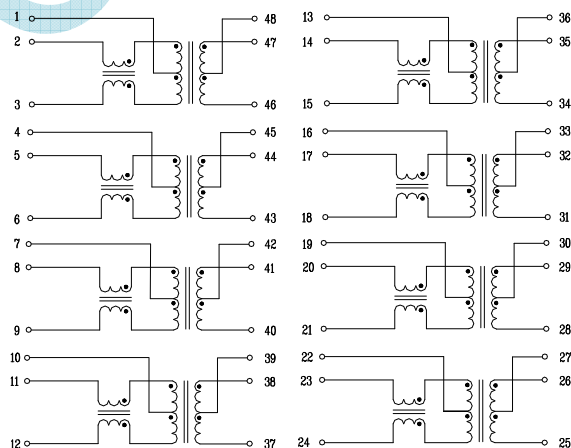
**Continue**

| Part Number | Insertion Loss (dB Max) | Return Loss (dB Min)@ Load 100Ω |         |        |       |          |
|-------------|-------------------------|---------------------------------|---------|--------|-------|----------|
|             |                         | 1-100MHz                        | 1-30MHz | 40MHz  | 50MHz | 60-80MHz |
| GS6014RM LF | -1.0                    | -18                             | -16     | -14.08 | -12.5 | -10      |

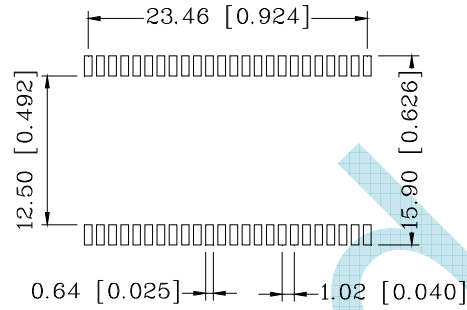
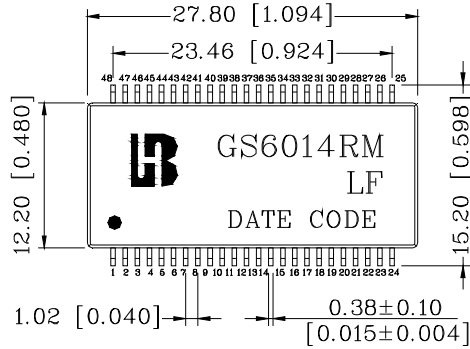
**Continue**

| Part Number | Cross talk (dB Min) |       |        | DCMR (dB Min) |       |        |
|-------------|---------------------|-------|--------|---------------|-------|--------|
|             | 30MHz               | 60MHz | 100MHz | 30MHz         | 60MHz | 100MHz |
| GS6014RM LF | -40                 | -35   | -30    | -43           | -37   | -33    |

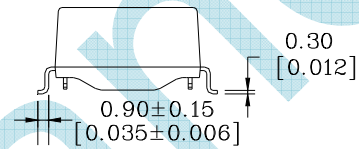
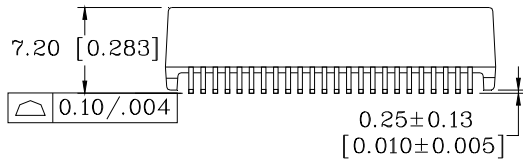
**Schematic**



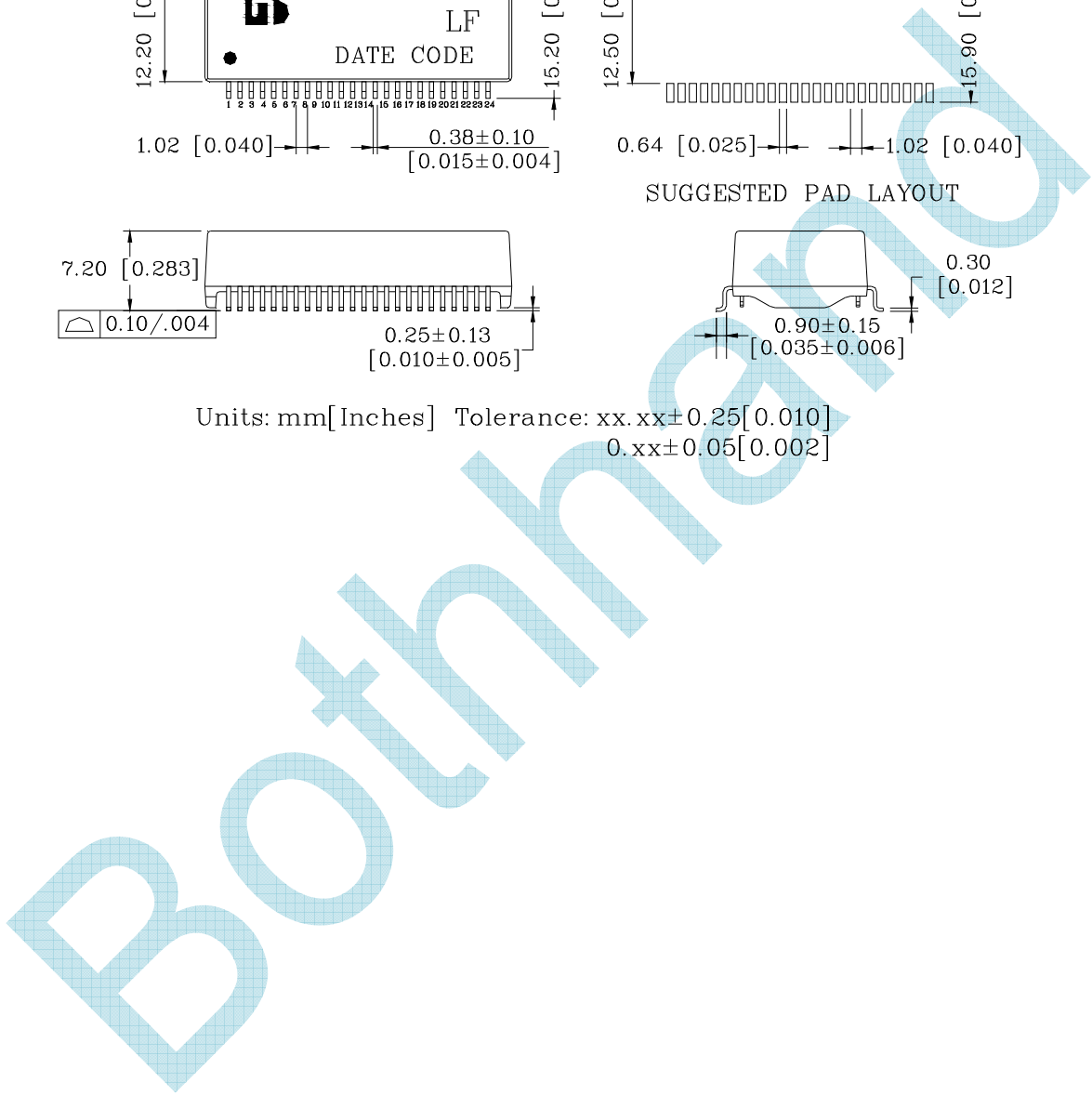
Mechanical



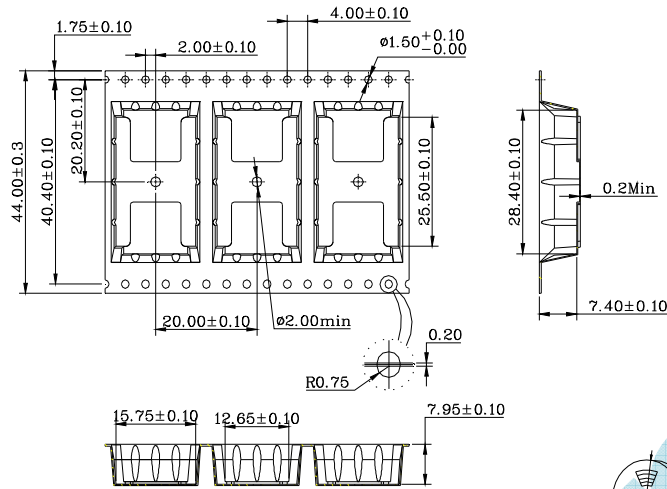
SUGGESTED PAD LAYOUT



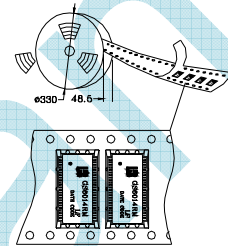
Units: mm [Inches] Tolerance: xx.xx ± 0.25 [0.010]  
 0.xx ± 0.05 [0.002]



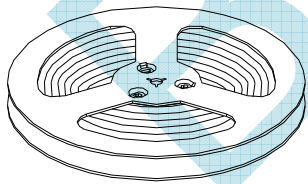
**REEL PACKAGE**



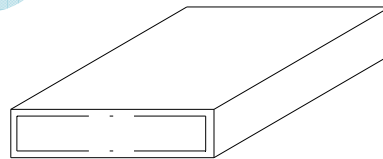
1. 10 sprocket hole pitch cumulative tolerance ±0.20
2. Carrier camber is within 1 mm in 250mm
3. Material : Black Anti-Static polystyrene.
4. All dimensions meet EIA-481-B requirements
5. Thickness : 0.40±0.05mm
6. Component load per 13" reel : 350pcs
7. Packing length per 22" reel: 25.1 Meters
8. comply with Bothhand's <BHKP-WI-44-005> requirements



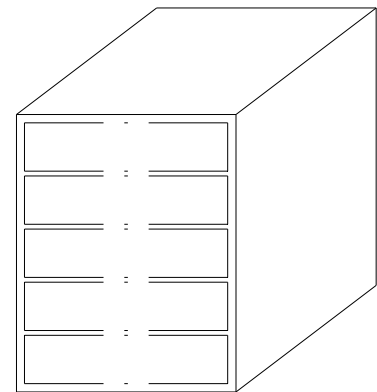
**CARTON PACKAGE**



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

1. 1 REEL=350PCS
2. 1 INNER BOX=1 REEL=350PCS
3. 1 OUTER CARTON=5 INNER BOXES=1750PCS