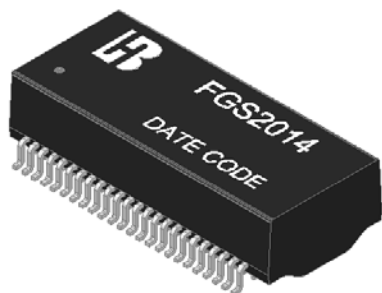


2.5G/5G BASE – T DUAL PORT  
MAGNETICS MODULES  
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Feature

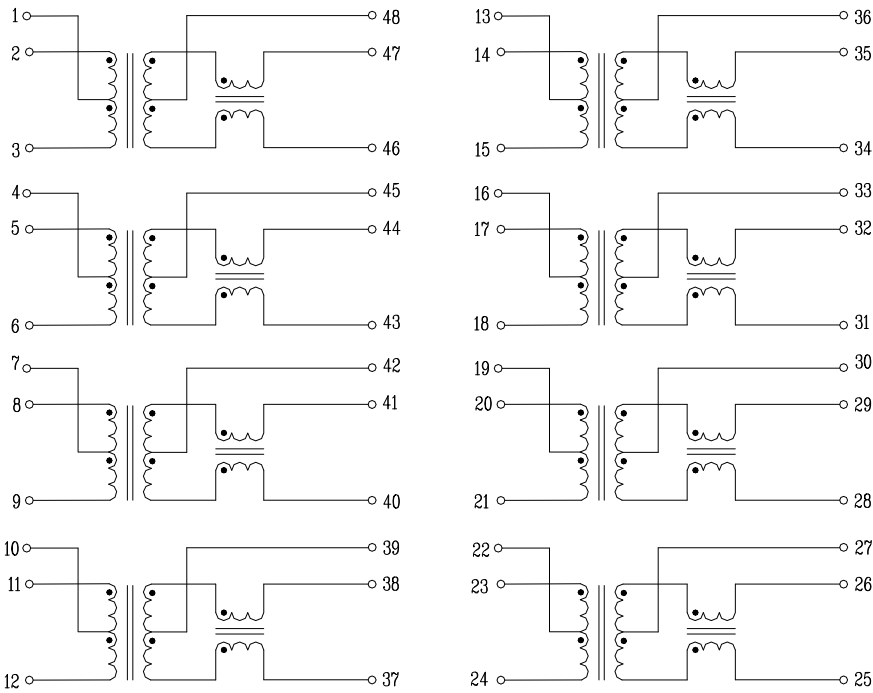


- Design for 5G ethernet application.
- Unsupported Poe application
- Complying with ROHS & Halogen Free requirements.
- Operating temperature range: 0°C to +70°C .
- Storage temperature range: -25°C to +85°C .

| Electrical Specifications @ 25°C |                   |         |                              |                                   |               |
|----------------------------------|-------------------|---------|------------------------------|-----------------------------------|---------------|
| Part Number                      | Turns Ratio (±3%) |         | OCL (uH Min)<br>@100KHz/0.1V | Cross talk (dB Min)               | HI-POT (Vrms) |
|                                  | TX                | RX      |                              | $1 \leq f \leq 250 \text{ MHz}$   |               |
| FGS2014                          | 1CT:1CT           | 1CT:1CT | 180                          | $-(43.1 - 20 \log_{10}(f / 100))$ | 1500          |

| Continue    |                                 |                                |                                 |                                |                             |                                  |
|-------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------------|----------------------------------|
| Part Number | Insertion Loss (dB Max)         |                                | Return Loss (dB Min)@ Load 100Ω |                                | DCMR (dB Min)               |                                  |
|             | $1 \leq f \leq 100 \text{ MHz}$ | $100 < f \leq 250 \text{ MHz}$ | $1 \leq f \leq 40 \text{ MHz}$  | $40 < f \leq 250 \text{ MHz}$  | $1 < f \leq 30 \text{ MHz}$ | $30 < f \leq 250 \text{ MHz}$    |
| FGS2014     | -1.0                            | -2.0                           | -16                             | $-(16 - 10 \log_{10}(f / 40))$ | -48                         | $-(44 - 19.2 \log_{10}(f / 50))$ |

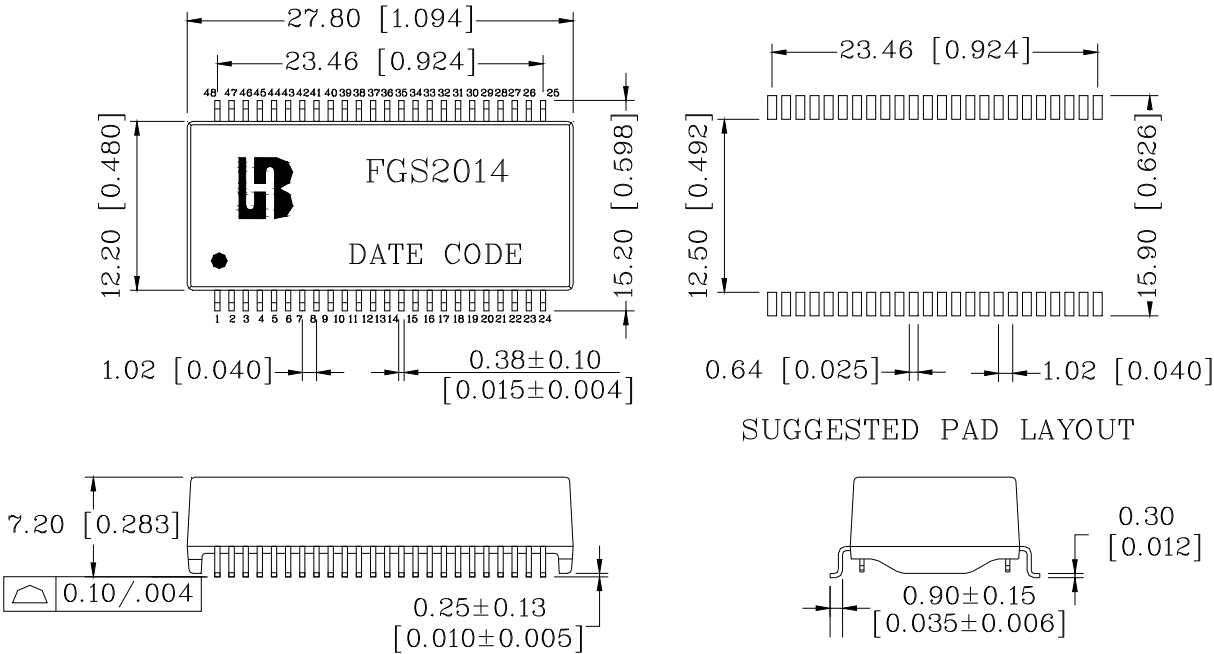
Schematic



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Mechanical



Units: mm[Inches] Tolerance: xx.x0±0.25[0.010]  
0.xx±0.05[0.002]