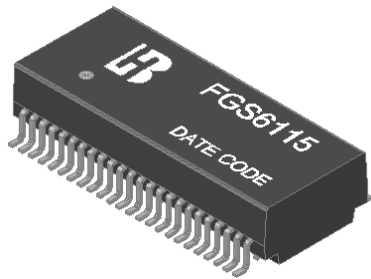


2.5G/5G BASE – T DUAL PORT  
MAGNETICS MODULES  
P/N: FGS6115 DATA SHEET



Feature



- Design for 5G ethernet application.
- Suitable for End-span POE applications with 1150mA current capability.
- Complying with ROHS & Halogen Free requirements.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +85°C.

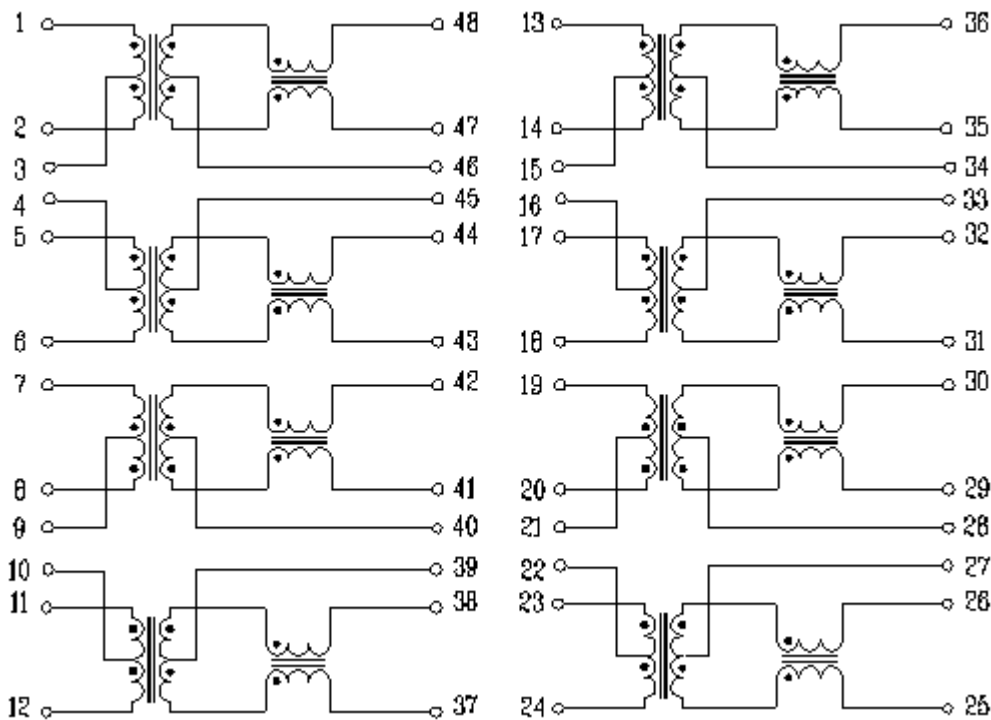
Electrical Specifications @ 25°C

| Part Number | Turns Ratio<br>(±3%) |         | OCL (uH Min)<br>@100KHz/0.1V | Cross talk<br>(dB Min)            | HI-POT<br>(Vrms) |
|-------------|----------------------|---------|------------------------------|-----------------------------------|------------------|
|             | TX                   | RX      |                              | $1 \leq f \leq 250 \text{ MHz}$   |                  |
| FGS6115     | 1CT:1CT              | 1CT:1CT | 180                          | $-(43.1 - 20 \log_{10}(f / 100))$ | 1500             |

Continue

| Part Number | Insertion Loss<br>(dB Max)      |                                | Return Loss<br>(dB Min)@ Load 100Ω |                                | DCMR<br>(dB Min)            |                                  |
|-------------|---------------------------------|--------------------------------|------------------------------------|--------------------------------|-----------------------------|----------------------------------|
|             | $1 \leq f \leq 100 \text{ MHz}$ | $100 < f \leq 250 \text{ MHz}$ | $1 \leq f \leq 40 \text{ MHz}$     | $40 < f \leq 250 \text{ MHz}$  | $1 < f \leq 30 \text{ MHz}$ | $30 < f \leq 250 \text{ MHz}$    |
| FGS6115     | -1.0                            | -2.0                           | -16                                | $-(16 - 10 \log_{10}(f / 40))$ | -48                         | $-(44 - 19.2 \log_{10}(f / 50))$ |

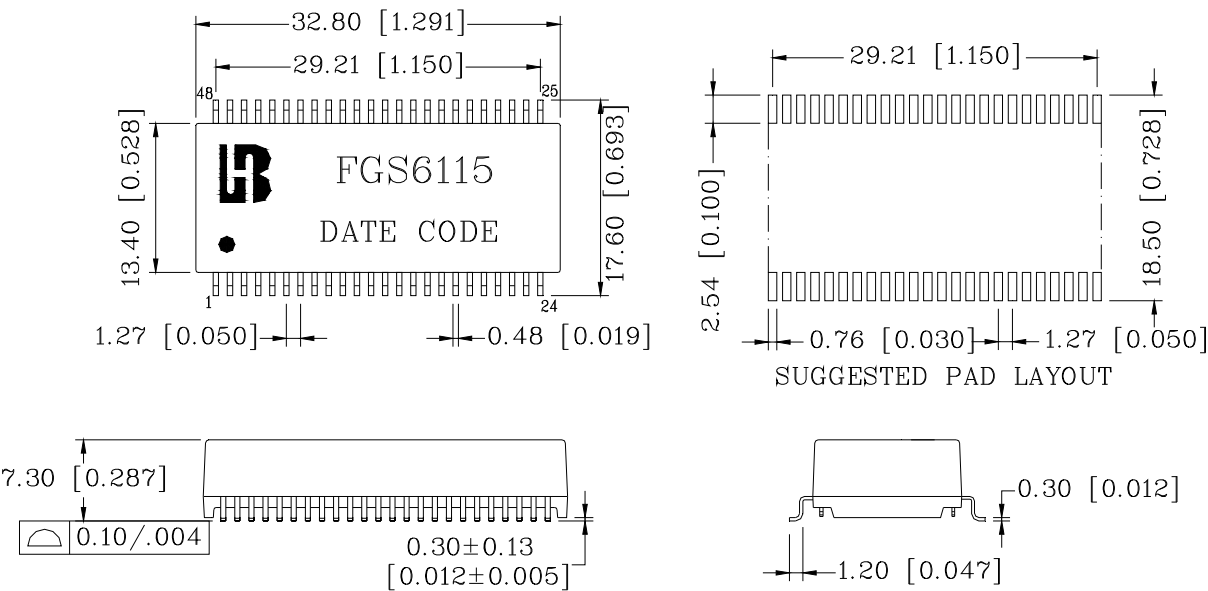
Schematic



2.5G/5G BASE – T DUAL PORT  
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Mechanical



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