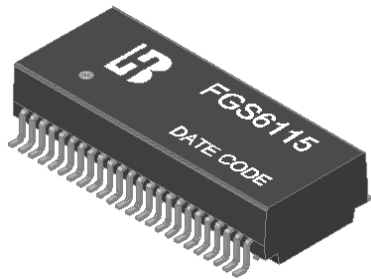


2.5G/5G BASE – T DUAL PORT
MAGNETICS MODULES
P/N: FGS6115 DATA SHEET



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.

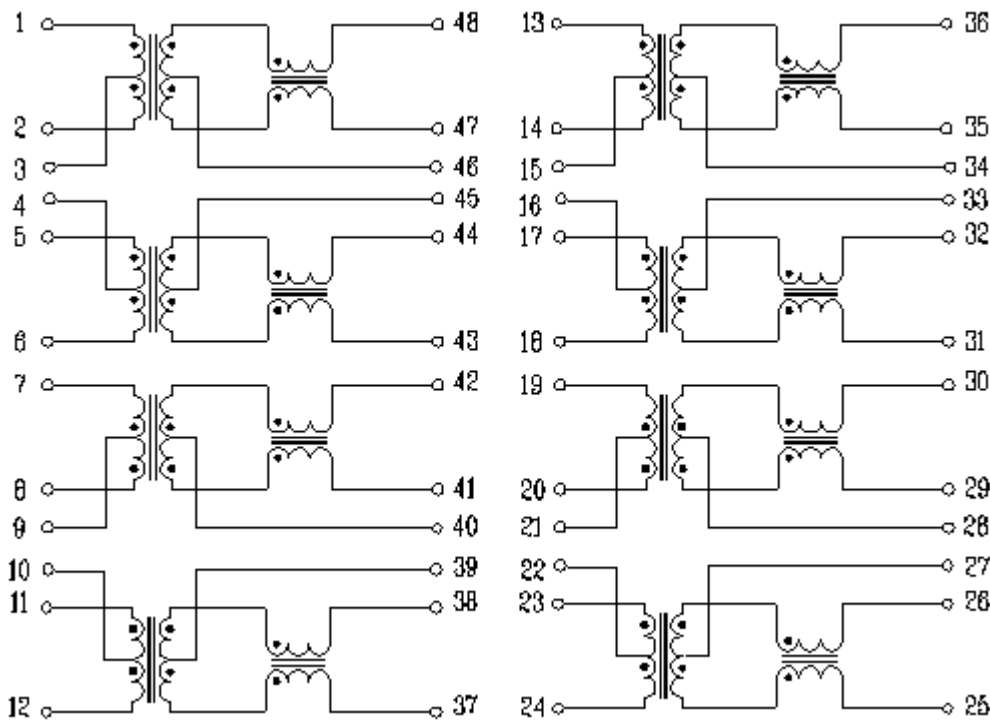
Electrical Specifications @ 25°C

Part Number	Turns Ratio (±3%)		OCL (uH Min) @100KHz/0.1V	Cross talk (dB Min)	HI-POT (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 (dB Max)		Return Loss (dB Min)@ Load 100Ω		DCMR (dB Min)	
	$1 \leq f \leq 100 \text{ MHz}$	$100 < f \leq 250 \text{ MHz}$	$1 \leq f \leq 40 \text{ MHz}$	$40 < f \leq 250 \text{ MHz}$	$1 < f \leq 30 \text{ MHz}$	$30 < f \leq 250 \text{ MHz}$
FGS6115	-1.0	-2.0	-16	$-(16 - 10 \log_{10}(f / 40))$	-48	$-(44 - 19.2 \log_{10}(f / 50))$

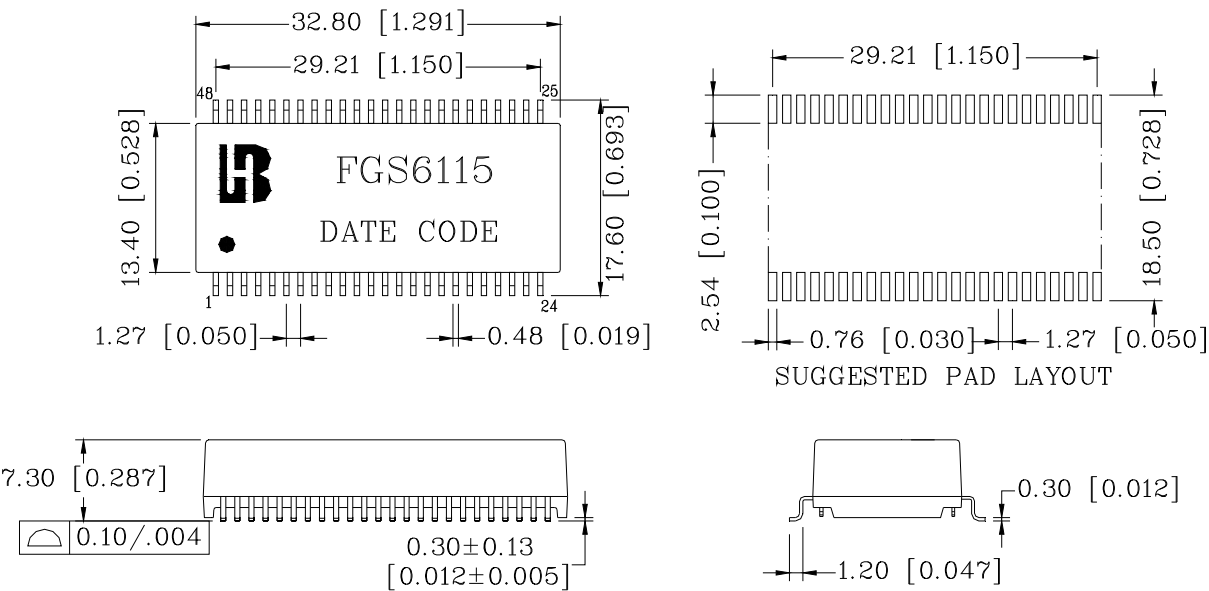
Schematic



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]