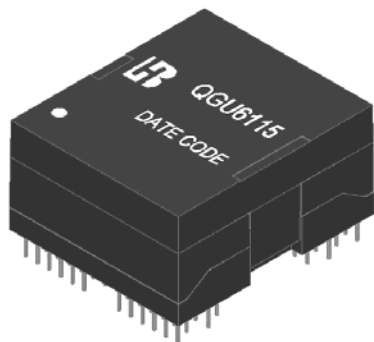


10/100/1000/2.5G BASE – T
MAGNETICS MODULES
P/N: QGU6115 DATASHEET



Feature

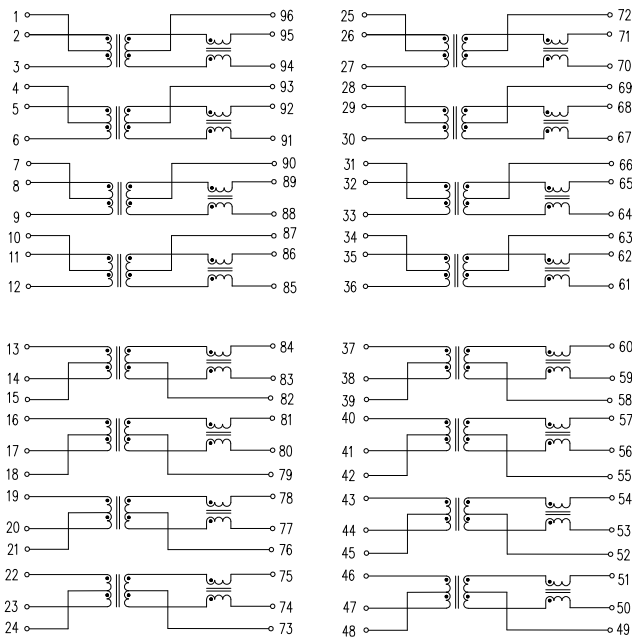


- Design for 2.5G ethernet application.
- Suitable for End-span POE applications with 1150mA current capability.
- Complying with ROHS requirements.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +85°C.

Electrical Specifications @ 25°C					
Part Number	Turns Ratio (±5%)		OCL (uH Min) @100KHz/0.1V	Cross talk (dB Min)	HI-POT (Vrms)
	TX	RX		$1 \leq f \leq 200 \text{ MHz}$	
QGU6115	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)	
	$1 \leq f \leq 100 \text{ MHz}$	$100 < f \leq 200 \text{ MHz}$	$1 \leq f \leq 40 \text{ MHz}$	$40 < f \leq 200 \text{ MHz}$	$1 < f \leq 30 \text{ MHz}$	$30 < f \leq 200 \text{ MHz}$
QGU6115	-1.0	-2.0	-16	$-(16-10 \log_{10}(f/40))$	-48	$-(44-19.2 \log_{10}(f/50))$

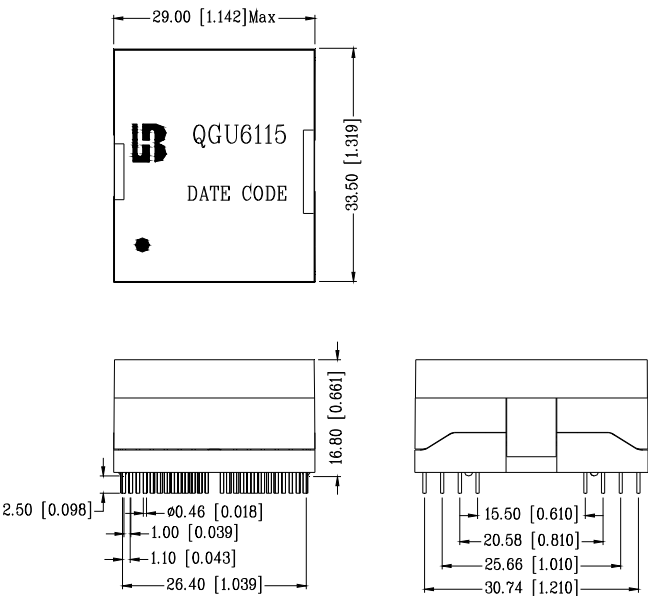
Schematic



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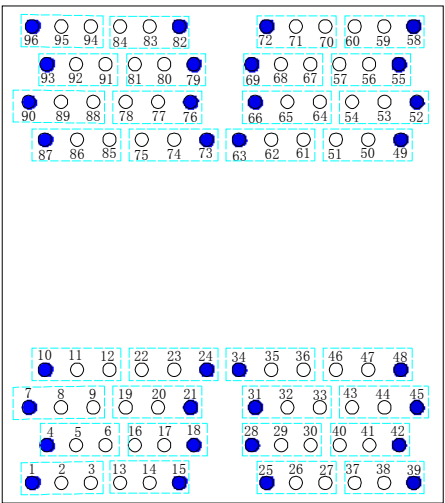
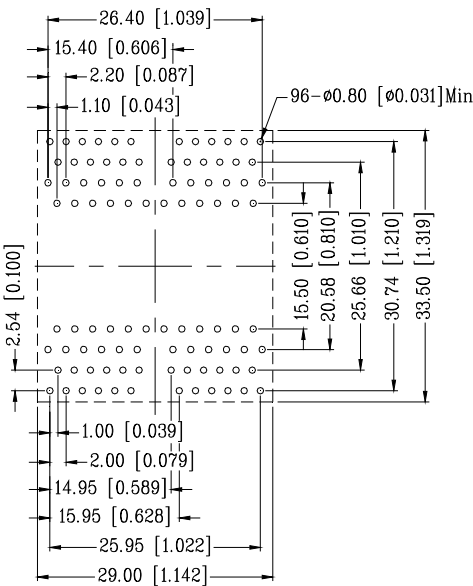


Mechanical



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

PCB Layout mounting Hole (Top View)



Unless otherwise specified,
all dimension tolerance are: $\pm 0.08[\pm 0.003]$

Blue : Center Tap