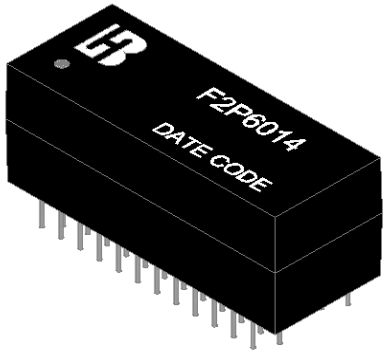
2.5G/5G BASE－T DUAL PORT MAGNETICS MODULES
P/N: F2P6014 DATA SHEET

BOTHHAND USA

Feature

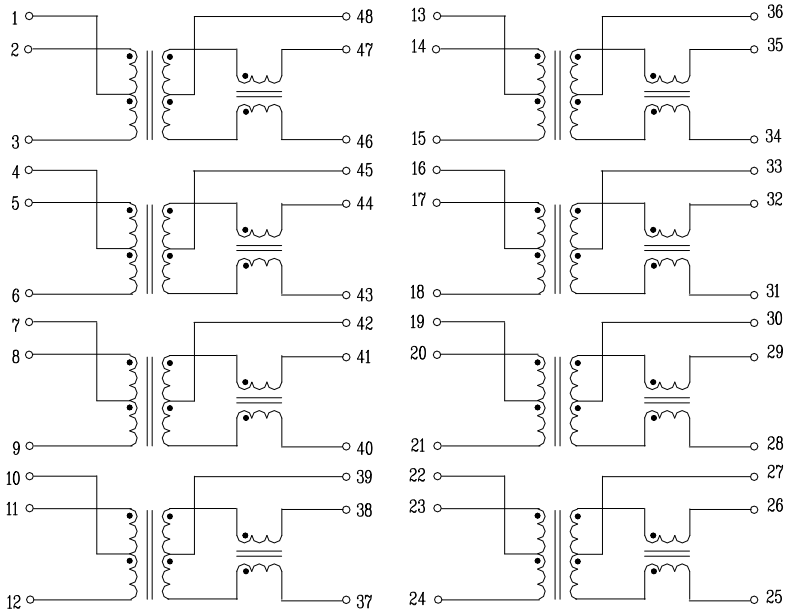


- Design for 5G ethernet application.
- Complying with IEEE 802.3at standard.
- POE applications with 600mA current capability.
- Complying with ROHS requirements.
- Operating temperature range: 0℃ to +70℃.
- Storage temperature range: -25℃ to +85℃.

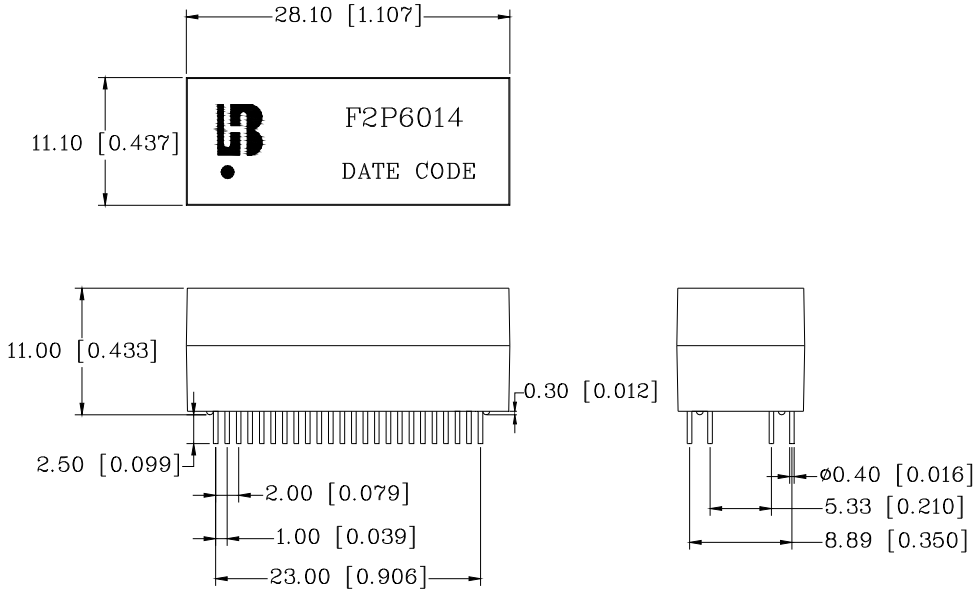
Electrical Specifications @ 25°C					
Part Number	Turns Ratio (±3%)		OCL (uH Min) @100KHz/0.1V	Cross talk (dB Min)	HI-POT (Vrms)
	TX	RX		$1 \leqq f \leqq 250$ MHz	
F2P6014	1CT:1CT	1CT:1CT	180	$-(43.1 - 20\log_{10}(f/100))$	1500

Continue						
Part Number	Insertion Loss (dB Max)		Return Loss (dB Min)@ Load 100Ω		DCMR (dB Min)	
	$1 \leqq f \leqq 100$ MHz	$100 < f \leqq 250$ MHz	$1 \leqq f \leqq 40$ MHz	$40 < f \leqq 250$ MHz	$1 < f \leqq 30$ MHz	$30 < f \leqq 250$ MHz
F2P6014	-1.0	-2.0	-16	$-(16-10\log_{10}(f/40))$	-48	$-(44-19.2\log_{10}(f/50))$

Schematic

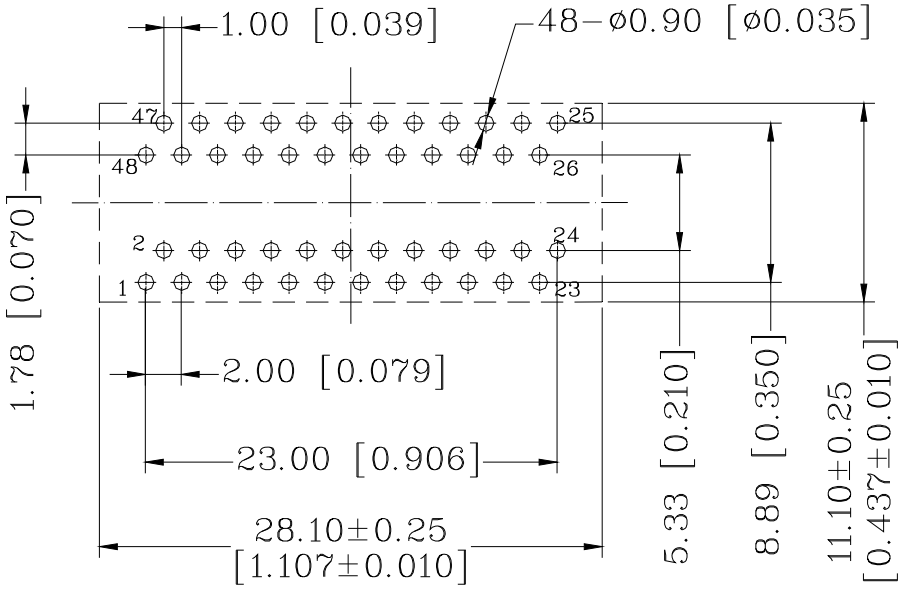


Mechanical



Units: mm[Inches] Tolerances 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: ±0.08[±0.003]