

Bothhand USA PG2P109NM-A LF MAGNETICS MODULES Datasheet

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Designed for Ethernet 100/1000 BASE-T, full duplex applications.

Supports 8 pairs of category 5 UTP cable.

Cable interface for isolation and low common mode emissions.

Compliant with IEEE 802.3ab standard for 1000 BASE-T.

Compliance with ROHS requirements.

Operating temperature range: 0 to +70.

Storage temperature range: -25 to +85.

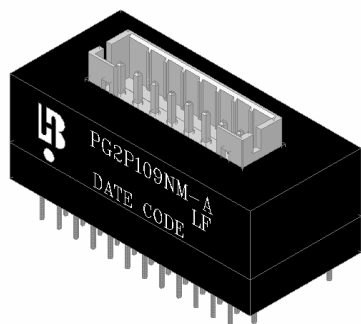
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1000 BASE –T DUAL PORT
MAGNETICS MODULES
P/N: PG2P109NM-A LF DATA SHEET



Feature

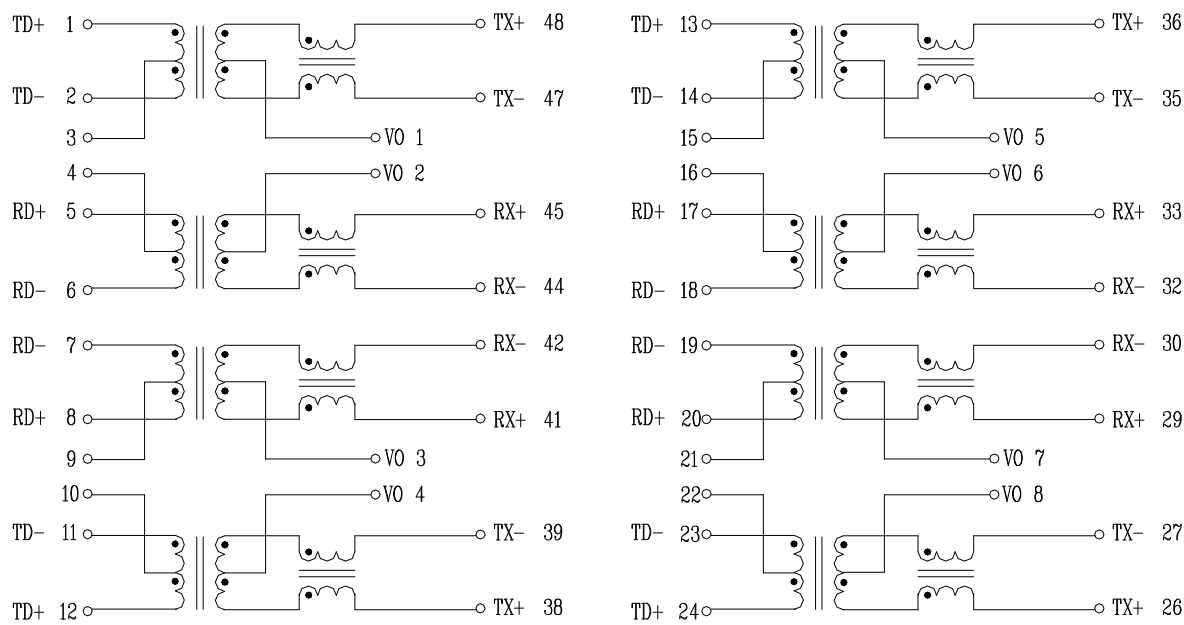


- Complying with IEEE 802.3at standard for 1000 BASE-T , full duplex applications.
- Supports 8 pairs of category 5 UTP cable.
- Cable interface for isolation and low common mode emissions.
- Complying with ROHS requirements.
- Operating temperature range: -40℃ to +85℃.
- Storage temperature range: -40℃ to +85℃.

Electrical Specifications @ 25°C							
Part Number	Turns Ratio (±5%)		OCL (uH Min) @100KHz/0.1V with 8mA DC Bias	Cross talk Attenuation (dB Min)			HI-POT (Vrms)
	TX	RX		30MHz	60MHz	100MHz	
PG2P109NM-A LF	1CT:1CT	1CT:1CT	350	-40	-35	-30	1500

Continue									
Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)@ Load 100Ω					DCMR (dB Min)		
	1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz	100MHz
PG2P109NM-A LF	-1.0	-18	-14.4	-13.1	-12	-10	-43	-37	-33

Schematic



LB BOTH HAND USA

The drawing shows three views of the PG2P109NM-A connector:

- Top View:** Shows the connector's footprint with a width of 13.00 mm [0.512] and a length of 28.10 mm [1.107]. The connector pins are visible in the center.
- Side View:** Shows the connector's profile. The total height is 11.10 mm [0.437]. The top section has a height of 2.80 mm [0.110]. The bottom section has a height of 0.40 mm [0.016]. The connector is labeled "PG2P109NM-A" and "DATE CODE". The pin pitch is 2.50 ± 0.10 mm [0.099 ± 0.004]. The pin width is 2.00 mm [0.079]. The pin spacing is 1.00 mm [0.039]. The total pin length is 23.00 mm [0.906].
- Pin Layout View:** Shows the arrangement of pins in two rows. The top row has 10 pins and the bottom row has 10 pins. The pin pitch is 2.50 mm.

Units: mm[Inches] Tolerances XX.X0 : ± 0.XX : ±

Technical drawing of a rectangular plate with dimensions and hole patterns. The drawing includes the following specifications:

- Overall Dimensions:**
 - Width: 28.10 [1.107]
 - Height: 13.00 [0.512]
- Internal Dimensions and Spacing:**
 - Distance from left edge to first hole center: 1.00 [0.039]
 - Distance between hole centers: 2.00 [0.079]
 - Distance from last hole center to right edge: 2.00 [0.079]
 - Distance from top edge to first hole center: 1.78 [0.070]
 - Distance between hole rows: 7.00 [0.276]
 - Distance from last hole row to bottom edge: 10.56 [0.416]
- Hole Patterns:**
 - Top row: 25 holes, labeled 47 (top left) and 25 (top right).
 - Second row: 26 holes, labeled 48 (left) and 26 (right).
 - Third row: 24 holes, labeled 2 (left) and 24 (right).
 - Bottom row: 23 holes, labeled 1 (left) and 23 (right).
- Other Features:**
 - A dimension of 48- $\varnothing 0.90$ [$\varnothing 0.035$] is indicated, pointing to the hole pattern.

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