

SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 10 BASE T MAGNETICS & FILTER

P/N : LF1S021

Page : 1/2

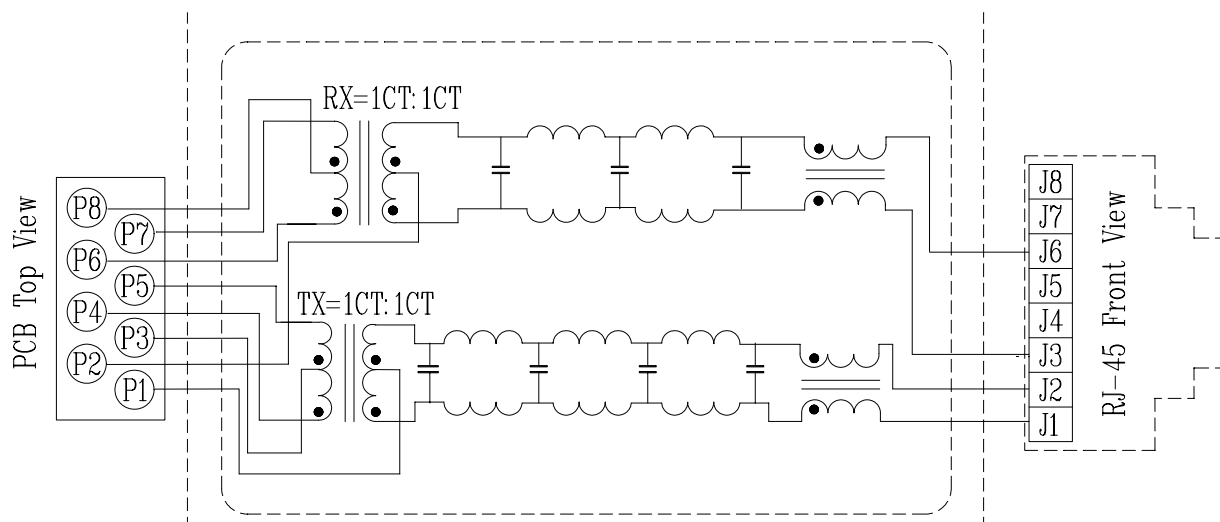
Feature



- RJ-45 connector integrated with filter.
- Size same as RJ-45 connector to save PCB Board space.
- Reduce EMI radiation, improve EMI performance.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C

Electrical Specifications @ 25°C								
Part Number	Turns Ratio (±5%)		Type (POLE)		CUT OFF Frequency (TX/RX)		Voltage isolation (Vrms)	
	TX	RX	TX	RX				
LF1S021	1CT:1CT	1CT:1CT	7	5	17 MHz±1.5 MHz		1200	
Continue								
Part Number	Insertion Loss (dB Max) TX/RX	Return Loss (dB Min) TX/RX	Attenuation (dB Min) TX/RX				Cross talk Attenuation (dB Min) TX/RX	CMR TX/RX (dB Min)
	1–10MHz	5-10MHz	20MHz	25MHz	30MHz	40MHz	1-10MHz	30-100MHz
LF1S021	-1.0	-14	-5/-4.2	-18/-11	-28/-16	-33/-26	-30/-30	-30/-30

Schematic

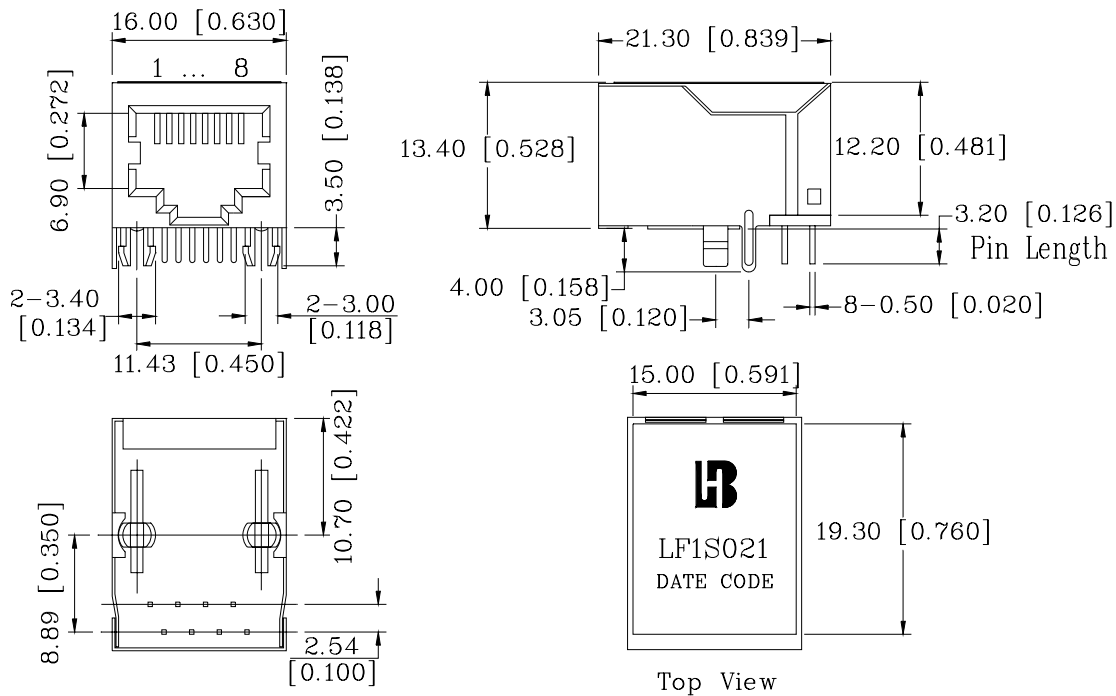


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Page : 2/2

Mechanical



Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]

0.xx±0.05[0.002]

1. Plastic Material : PBT 15% Glass Filled(UL 94V-0), Black Housing
2. Metal Shield : Brass C2680-H, 20u Nickel Plated, t=0.25mm
3. Spring Wire : 0.45mm Dia. Phosphor bronze with 6u gold plated
4. Solder Pin : 0.4x0.4mm, Phosphor bronze with solder Plated
5. Durability : 300 Mating cycles Min.

PCB Layout Mounting Hole(Top View)

