SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS

P/N: LU1S517

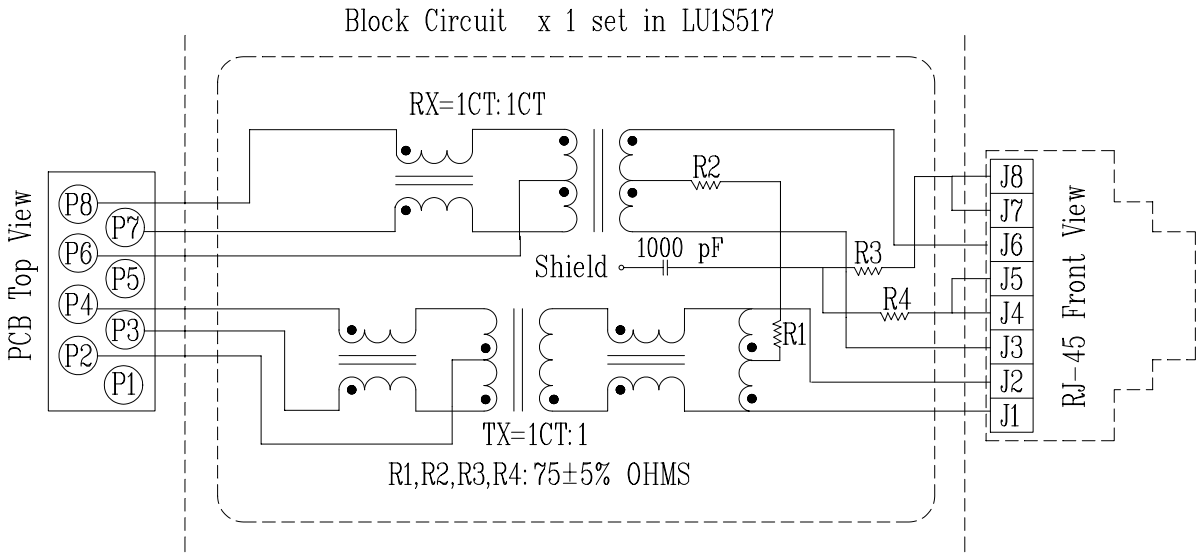
Feature

- Complies with requirement of IEEE802.3u standards.
- RJ 45 connector with 10/100 BASE-TX magnetic.
- Rating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C.

Electrical Specifications @ 25°C									
Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100 KHz/0.1V with 8mA DC Bias	L.L (uH Max)	$C_{W/W}$ (pF Max)	Rise Time 10-90% (nS TYP)	Cross talk (dB Min)		
	TX	RX					0.3-30MHz	30-60MHz	60-100MHz
LU1S517	1CT:1	1CT:1CT	350	0.4	28	2.5	-40	-35	-30

Continue											
Part Number	Insertion Loss (dB Max)		Return Loss (dB Min)					CMR (dB Min) TX/RX			HI-POT (Vrms)
	0.3-100MHz	100-125MHz	30MHz	40MHz	50MHz	60MHz	80MHz	1-30MHz	30-60MHz	60-125MHz	
LU1S517	-1.1	-1.5	-16	-14	-13.5	-13	-10	-30	-25	-20	1500

Schematic



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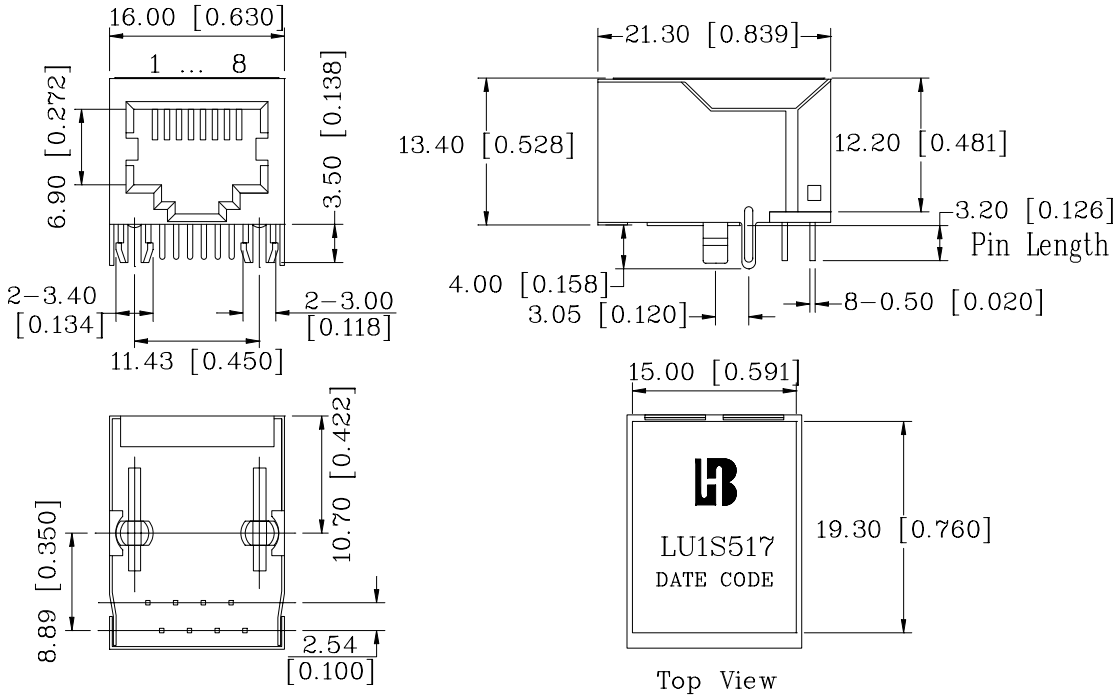
Mechanical

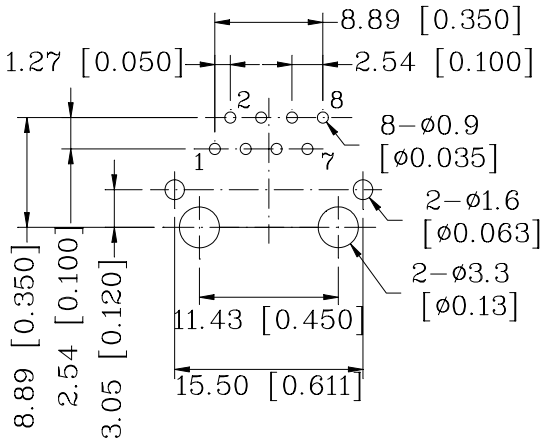


Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]

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)



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