

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

- Complies with requirement of IEEE 802.3u standards.
- RJ-45 connector integrated with transformer/impedance resistor/high voltage capacitor.
- Size same as RJ-45 connector to save PCB board space.
- Reduced EMI radiation to improve EMI performance.
- Design for 10/100 BASE transmission over UTP-5 cable.
- Use smd chip choke
- Compliance with ROHS requirements.
- Operating temperature range: 0 to +70 .



Electrical specifications @ 25

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)					Cross Talk (dB Min)		
	0.3-100MHz	30MHz	40 MHz	50 MHz	60 MHz	80 MHz	0.3-30 MHz	30-60 MHz	60-100 MHz
KHU1S041Q4 LF	-1.15	-16	-14	-13.5	-13	-10	-40	-35 -30	
KHU1S041Q5 LF	-1.15	-16	-14	-13.5	-13	-10	-40	-35 -30	

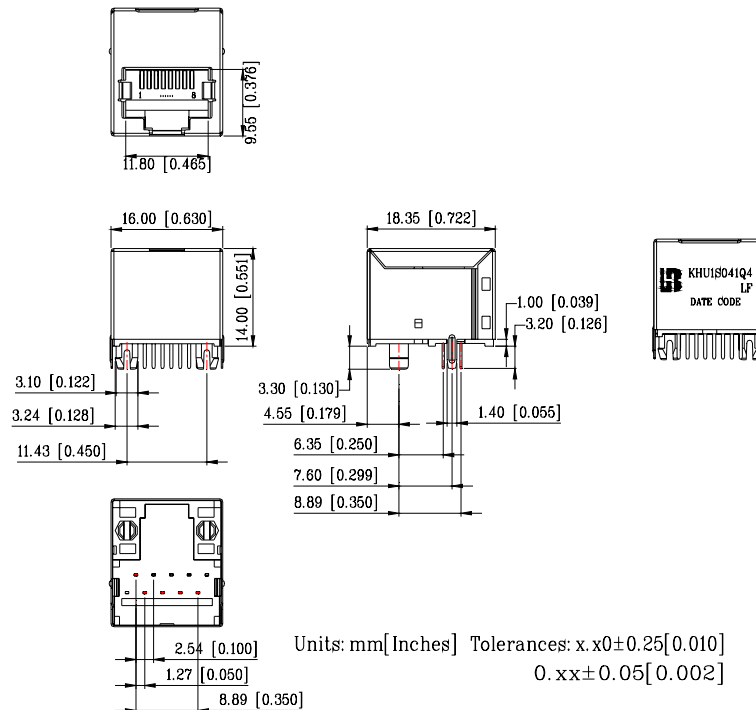
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Number	Turns Ratio (±5%)		OCL (uH Min) @ 100KHz/0.1V with 8mA DC Bias	C _{WW} (pF Max)	L.L (uH Max)	HI-POT (V _{rms})	CMR (dB Min)		
	TX	RX					1-30MHz	30-60 MHz	60-125 MHz
KHU1S041Q4 LF	1CT:1CT	1CT:1CT	350	28	0.4	1500	-30	-25	-20
KHU1S041Q5 LF	1CT:1CT	1CT:1CT	350	28	0.4	1500	-30	-25	-20

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Mechanicals

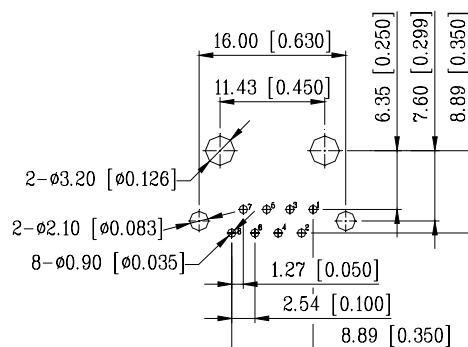
KHU1SXXXQ4 LF



- | | |
|---------------------|---|
| 1. Plastic Material | : Thermoplastic (UL 94V-0), Black Housing |
| 2. Metal Shield | : Brass, 20u" inches thick Nickel |
| 3. Spring Wire | : Phosphor bronze with selective gold plating |
| 4. Solder Pin | : 0.46x0.3 mm, Phosphor bronze with solder Plated |
| 5. Durability | : 750 Mating cycles Min. |

PCB Layout Mounting Hole (Top View)

KHU1SXXXQ4 LF



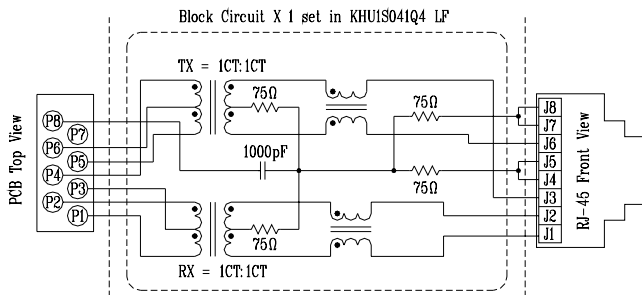
Units: mm[Inches] Tolerances: x.x0±0.25[0.010]
0.xx±0.05[0.002]

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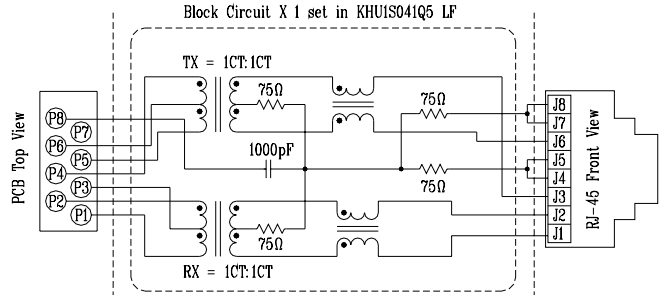
Specification	Packing Manner	Q'ty per Tube	Q'ty/ Inner box	Q'ty/ Carton
HU1SXXXX4 LF	TUBE	30	750	3000

Schematics

KHU1S041Q4 LF



KHU1S041Q5 LF



Part Numbering System

Example BHJack Part Number:

K	H	U	1	S	041Q	4	LF
代表非 MD 機構	TAB Vertical RJ-45 JACK	100 BASE (802.3U)	Number of parts “1” : single port	Shield type S: standard shield	for different circuit	高度 14mm	RoHS