

“LAN-MATE”SERIES

SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED

10/100 BASE-TX MAGNETICS

- RJ-45 needs to be matched FCC standard.
- Complies with requirement of IEEE802.3u 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.
- Includes integrated 2 LEDS(option).
- LEDS are isolated to reduce cross talk and electro-magnetics interference.
- Compliance with ROHS requirements.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +85°C.



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Electrical specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100 KHz/0.1V with 8mA DC Bias	C _{WW} (pF Max)	L.L (uH Max)	Insertion Loss (dB Max)	HI-POT (Vrms)
	TX	RX				0.3-100MHz	
KRU1S041X-43 LF	1CT:1CT	1CT:1CT	350	56	0.5	-0.8	1500
KRU1T041-34 LF	1CT:1CT	1CT:1CT	350	--	--	-1.15	1500
KRU1T041FR-44 LF	1CT:1CT	1CT:1CT	350	--	--	-1.15	1500

Continue

Number	Return Loss (dB Min)					Cross talk (dB Min)			CMR (dB Min)		
	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-125MHz
KRU1S041X-43 LF	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20
KRU1T041-34 LF	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20
KRU1T041FR-44 LF	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20

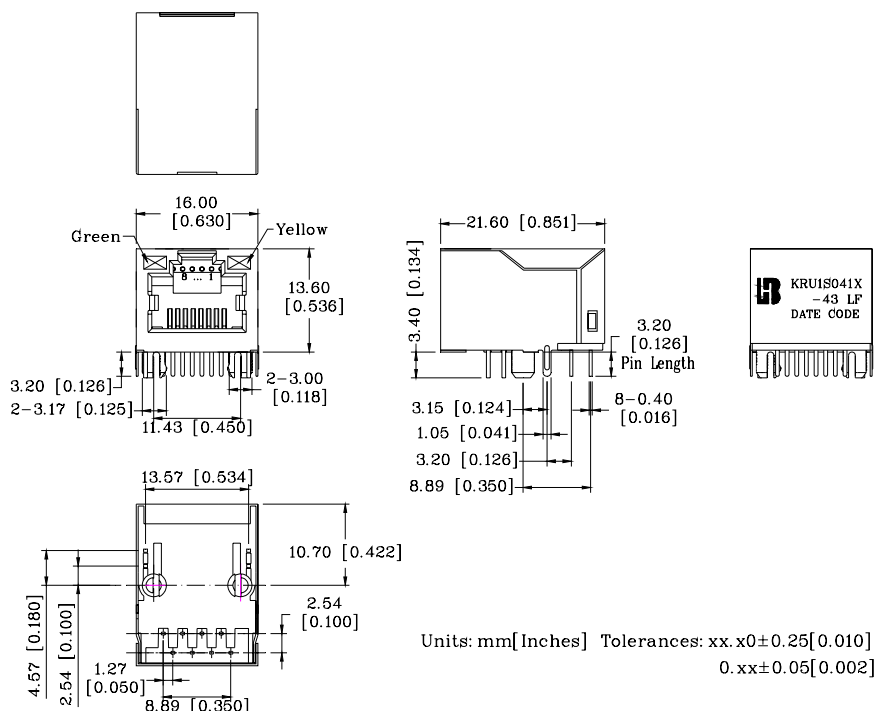
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Mechanicals

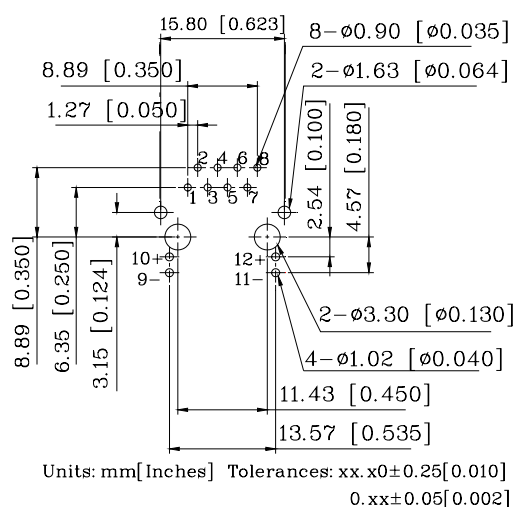
KRU1XXXX-XX LF



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 : 0.5x0.35mm, SUS430 with solder Plated
5. Durability : 750 Mating cycles Min.

PCB Layout Mounting Hole (Top View)

KRU1XXXX-XX LF

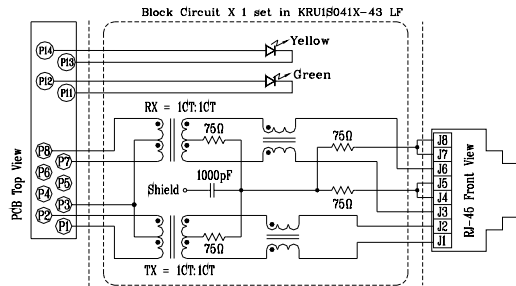


“LAN-MATE”SERIES SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS

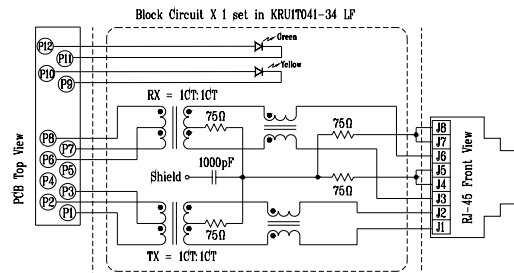
Specification	Packing Manner	Q'ty per Tube/Reel	Q'ty/ Inner box	Q'ty/ Carton
KRU1SXXX LF	TUBE	30	480	1920
KRU1TXXX LF	TUBE	26	416	1664

Schematics

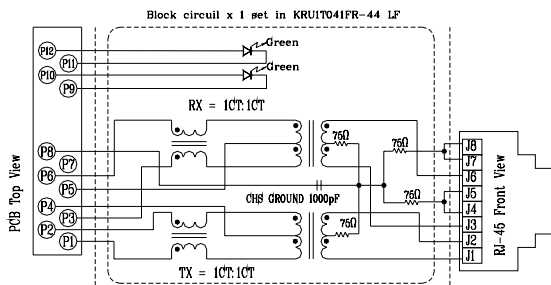
KRU1S041X-43 LF



KRU1T041-34 LF



KRU1T041FR-44 LF



Part Numbering System

Example BHJack Part Number:

K	R	U	1	S	041	-XX	LF
代表非 M'D 機構	TAB	DOWN	100 BASE (802.3U)	Number of parts	Shield type	for different circuit	Led options
	RJ-45 JACK		"1" : single port	S: standard shield			RoHS
				T: with spring tab on top and side			
				D: spring tab on side			
				E: spring tab on top			