



RJI RJ45 Jack



General information

Same size as RJ45 modular jack to save PCB space
 Reduced EMI radiation, improved EMI performance
 Designed for network interface card applications
 Designed to meet IEEE 802.3u requirements

Electrical specification

Inductance	350 uH Min. at 100 KHz, 100 mV, 8 mADC
Leakage inductance	0.3 uH Max. at 100 KHz, 100 mV
Insertion loss	1.1 dB Max. at 1-100 MHz
Return loss	18 dB Min. at 1-30 MHz 16 dB Min. at 30-60 MHz 12 dB Min. at 60-80 MHz
Cross talk	1-100 MHz, 30 dB Min.
Common mode rejection ratio	30 dB Min. at 1-100 MHz
Isolation voltage	1500 Vrms (input to output) 60 seconds at 60 Hz

Mechanical specification

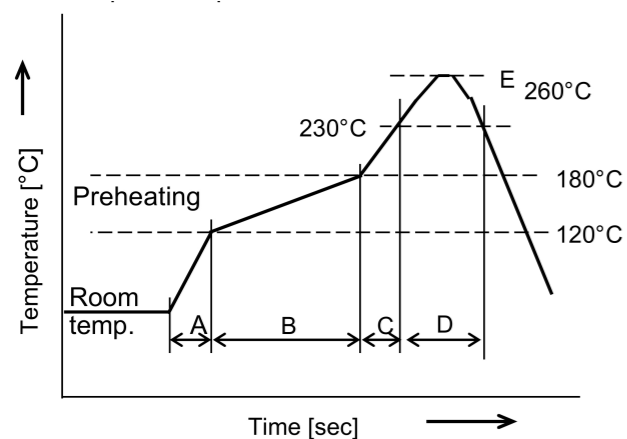
Housing material	POLYESTER or HighTemp. UL94V-0
Contact material	Phosphor Bronze T=0.30 mm
Plating	Gold plating over Nickel
Operating life	750 cycles Min.
Shield material	0.20 mm thickness Brass plating Nickel

Environmental specification

Storage	-40°C to +85°C
Operation	-40°C to +85°C

Mates with modular plug according to TIA-1096-A

Reflow soldering (HighTemp. material)



	Components size *1	□ 28 mm or less	□ over 28 mm	Unit
A	Temp. rise gradient *2	1 - 5		°C/sec
B	Heating time	50 - 150		sec
	Heating temperature	120 - 180		°C
C	Temp. rise gradient *2	1 - 5		°C/sec
D	Time over 180°C	90	70	sec
E	Temperature	260	250	°C
	Temp. hold time	Momentary		sec
	Soldering	1		times

*1 - Length or width, whichever is the greater outside dimension (length for a rectangular component)
 *2 - Temperatures and time for A through E in the table above shall be measured on the top surface of the component

Flow (wave) soldering (solder dipping)

Temperature	260°C
Dipping time	5 sec
Soldering	1 time

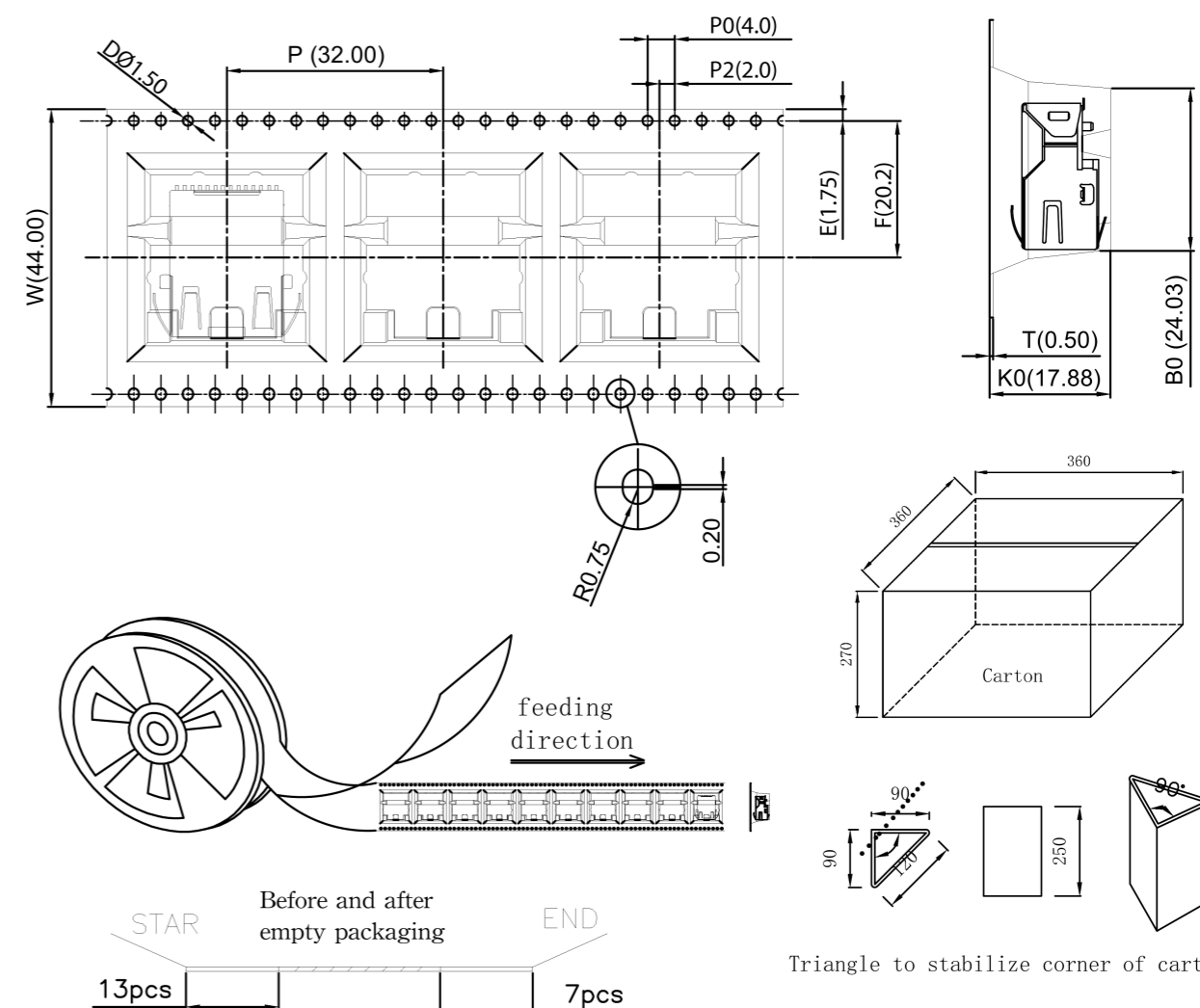
Hand soldering / touchup

Soldering iron tip temperature	380°C
Soldering time	3 sec

Additional information

Reflow/flow soldering shall be completed within 168 hours after unpacking
 Storage environment: 30°C, 70% RH

Packaging specification



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	Department EC PD - RO	Title RJI RJ45 jack		Doc-Key / ECM-Nr. 100696167/UGD/000/A 500000110078		Rev. A	Page 1/1
HARTING Electronics GmbH D-32339 Espelkamp		Type DS	Number 09450000002				