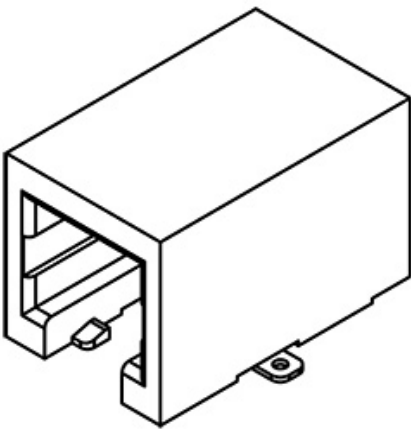
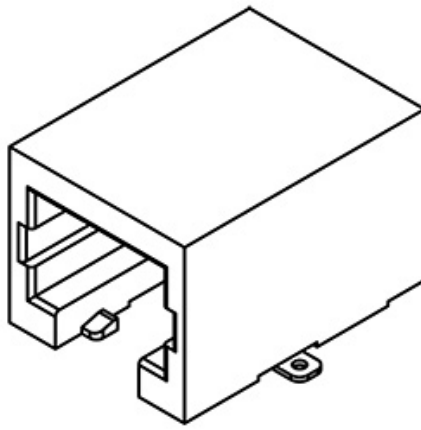


PRODUCT SPECIFICATION

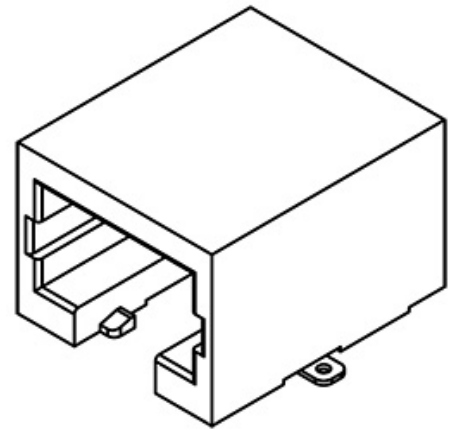
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MJ3410-44



MJ3410-6X



MJ3410-88

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1.0 SCOPE.

This specification covers performance, tests and quality requirements for the Modular Jack, Category 3, Right Angle, SMT, 4, 6 & 8 Position, MJ3410 range.

2.0 PRODUCT NAME AND PART NUMBER.

- Modular Jack Connector, 4 Position, Category 3, Right Angle, SMT, with Outside Solder Tab, Standard Latch – MJ3410-44-X
- Modular Jack Connector, 6 Position, Category 3, Right Angle, SMT, with Outside Solder Tab, Standard Latch – MJ3410-6X-X
- Modular Jack Connector, 8 Position, Category 3, Right Angle, SMT, with Outside Solder Tab, Standard Latch – MJ3405-88-X

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL.

Please refer to drawings.

4.0 RATINGS.

- Current rating 1.5 A
- Voltage rating 125 V AC
- Storage Temperature..... -40°C to +85°C
- Operating Temperature Range -40°C to +85°C

5.0 TEST AND MEASUREMENT CONDITIONS.

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Paragraph 6.0. All tests are performed under the following conditions unless otherwise specified.

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6.0 PERFORMANCE.

Item	Test Condition	Requirement
Examination of Product	Visual, dimensional and functional inspection as per quality plan.	Product shall meet requirements of product drawing and specification.

6.1 Electrical Performance.

Item	Test Condition	Requirement
Contact Resistance	Measure the resistance between input and output and in accordance with EIA-364-23	35 m Ω maximum
Insulation Resistance	Apply 500vdc between adjacent terminals and in accordance with EIA-364-21	1000 M Ω minimum
Dielectric Strength	Apply 1000VAC for 1 minute between adjacent terminals and in accordance with EIA-364-20	No voltage breakdown

6.2 Mechanical Performance.

Item	Test Condition	Requirement
Durability	750 Cycles in accordance with EIA-364-09	No damage $\Delta R \leq 10m\Omega$
Solderability Test	Soldering Time: 4-5 seconds at a solder temperature of 245 $\pm 5^{\circ}C$ and in accordance with EIA-364-52	95% minimum Solder Area
Resistance to Soldering Heat Test (Hand soldering)	Soldering Time: 4-5 seconds at a Temperature of 360 $\pm 10^{\circ}C$ and in accordance with EIA-364-56	No damage $\Delta R \leq 10m\Omega$
Vibration Test	1.5mm, 10+55-10Hz per minute, 2hours for each X.Y and Z directions and in accordance with EIA-364-28	Discontinuity 1 μ s Max.
Shock Test	Temperature: -55 \rightarrow 20 ~ 25 \rightarrow 85 \rightarrow 20 ~ 35 ($^{\circ}C$) Temperature Time: 30 \rightarrow 5 \rightarrow 30 \rightarrow 5 (mins) Number of Cycles: 5 In accordance with EIA-364-32B	No damage $\Delta R \leq 10m\Omega$

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Item	Test Condition	Requirement
Mating/Unmating Force	Insertion speed at 25 ±3mm per minute and in accordance with EIA-364-13	2.27kgf Max.
Plug to Jack Retention	Plug shall not dislodge from Jack In accordance with EIA-364-35	9.1kgf Min.

6.3 Environmental Performance and Others.

Item	Test Condition	Requirement
Cold Resistance	-40 ±2°C, 96 hours In accordance with EIA-364-59	No damage, ΔR≤10mΩ
Heat Resistance	85 ±2°C, 96 hours In accordance with EIA-364-17	No damage, ΔR≤10mΩ
Heat Test	40 ±2°C, 90~95% RH, 96 hours In accordance with EIA-364-31	No damage, ΔR≤10mΩ
Salt Spray	35 ±2°C consistency 5 ±1%, 48 hours In accordance with EIA-364-26	No rust, ΔR≤10mΩ

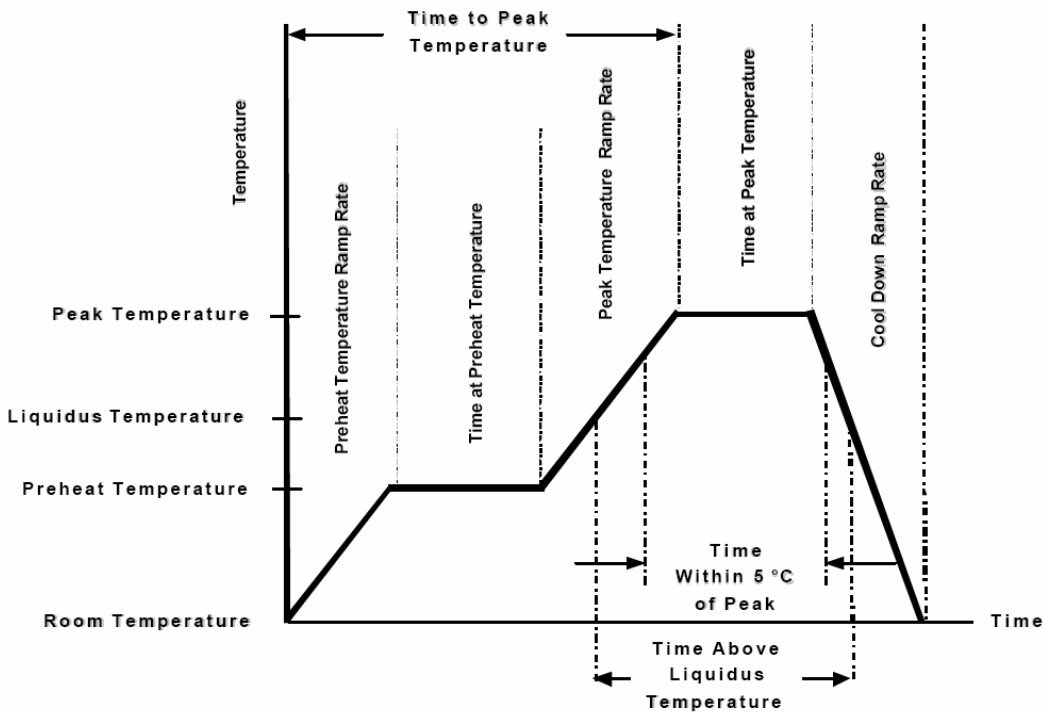
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6.4 REFLOW SOLDERING PROFILE

Recommended Reflow Soldering Profile

Parameter	Specification
Average Ramp Rate	3°C/s max.
Preheat Temperature	150°C to 200 °C
Preheat Time	60s to 180s
Ramp to Peak	3°C/s max.
Time above Liquidus (217°C)	60s to 150s
Peak temperature	260°C (-0/+5°C)
Time within 5°C of peak	20s to 40s
Ramp – Cool Down	6°C/s max.
Time 25°C to Peak	8 minutes max.



This profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.

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7.0 TEST GROUP AND SEQUENCE

Item	Description	Test Group						
		A	B	C	D	E	F	G
		Test Sequence						
1	Examination or product	1, 7	1, 6	1, 3	1, 3	1		
2	Contact resistance	2, 4				2, 4	1, 3	1, 3
3	Insulation resistance		2					
4	Dielectric strength		3					
5	Solderability		4					
6	Resistance to soldering Heat Test		5					
7	Vibration			2				
8	Shock Test				2			
9	Durability	3						
10	Mating / Unmating force	5, 6						
11	Plug to Jack retention	8, 9						
12	Cold Resistance					3		
13	Heat Resistance						2	
14	Humidity						4	
15	Salt spray							2
Sample Size (pcs)		3	3	3	3	3	3	3

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Revision details :-

Revision	Information	Page	Release Date
A	Specification Released	-	31/0710
B	Added 6 Position X loaded (4 and 6 options)	2	26/10/11
C	Add reflow information page	5	03/04/19