MX5197/5281 Type connector Scondar Electronic Co.,Ltd.

PRODUC SPECIFICAION

P/N :SCT5082

Specifications

1、Poles : 2 to 20P
2、Rated current : 5A AC, DC
3、Rated voltage : 250V AC,DC
4、Temperature range : -25℃ to +85℃
5、Contact resistance : ≤15mΩ
6、Insulation resistance : ⩾1000mΩ
7、Withstanding voltage : 1500V AC/minute
8、Applicable wire : AWG 22# to #18

	Item	Test Condition	Requirement	
1	Appearance	Visual by eye Light:>1.0 Lamp:200~300Lx Space:0.3~0.5m	1.Plastic part:smooth and flat surface without discolor,broken,crack distortion defects is acceptable. 2.Metal part: btight and even surface without rust,oxide,fog and obvious Physical damage defects is acceptable. 3.Wire: clearing surface without discolor,broken defects,indistinct words and mark is acceptable.	
2	Contact Resistance	Mate connectors,measure by dry circuit.	15mΩ MAX	
3	Insulation Resistance	between adjacent terminal or ground.	1000mΩ MIN	
4	Dielectric strength	Mate connectors,apply 1800V AC for 1minute between adjacent terminal or ground.	No Breakdown	
5	Crimping Pull Out Force	Fixed test samples in the experiment device of chuck, in the connecting axis direction implementation of tension, speed is not more than 25mm/min.	AWG 18#	60N MIN
			AWG 20#	50N MIN
			AWG 22#	40N MIN

PRODUC SPECIFICAION

P/N :SCT5082

6	Fixed force shell / terminal	Fixed connector goods dynamo meter, applying a predetermined tension in the connector axis direction; the speed of not more than 25mm/min.	30N MIN	
7	Fixed force needle	Fixed connector or ergo meter, applying a predetermined thrust needle in The axial direction of the connector;the speed of not more than25mm/min.	/	
8	Solder ability	Soldering time:2~3 second Solder Temperature :235℃±5℃	Tin rate greater than 90%	
9	Thermal resistance welding	Soldering time:4~6 second Solder Temperature:260℃±5℃	Appearance	No damage
10	High temperature resistant	Put the specimen in the high temperature test chamber, temperature change of 0.7 ~ 1 ℃ / min speed, will be transferred to a temperature of 85 ℃ + 2 ℃ to keep 4 hours after balance, and then down to room temperature, at the same speed recovery after two hours.	Appearance	No damage
11	Low temperature resistance	Put the specimen in the low temperature test chamber, temperature change of 0.7 ~ 1 ℃ / min speed, the thermostat at 25 ℃ + 2 ℃ to keep 4 hours after balance, and at the same speed up to room temperature, restore check in two hours	Appearance	No damage
12	Temperature rise	Carring rated current load	Maximum temperature rise	30℃ MAX
13	Humidity	Temperature: 40±2 degrees Relative humidity: 90%~95% Use of time: 96 hours, 2 hours after the check out recovery	Appearance	No damage
			Dielectric Strength	Must meet 4
			Insulation Resistance	1000mΩ MIN

PRODUC SPECIFICAION

P/N :SCT5082

14	Temperature cycling	Put the test sample in the high and low temperature test chamber, temperature of debugging and according to the following steps: A).At 25 ℃ ~ 225 ℃ under the condition of constant temperature placed 1 hour. B)Under the condition of normal temperature often wet place 1 hour. C)In 85 ℃ ~ 225 ℃ under the condition of constant temperature placed 1 hour. D)Under the condition of normal temperature often wet place for 1 hour. From A) to D) as A cycle, A total of five cycles. Check back 2 hours later.	Appearance	No damage
			Contact Resistance	20mΩ MAX
15	Vibration	Frequency:10~55Hz Amplitude:`0.35mm Frequency:55~500Hz Amplitude:50m/s′ Duration:2 hours in each X.Y.Z axes	Appearance	No damage
			Discontinuity (when R>7Ω)	1μs MAX
			Contact Resistance	15mΩ MAX
16	mechanical life	Atarateof10timesperminuteplug,plug 50.	Contact Resistance	15mΩ MAX
17	Salt mist	Test samples from solid chamber roof hanging down, the concentration of 5% ±1 (mass percent) of sodium chloride solution, atomization 16 hours in a row, after the experiment, with the distilled water gently wash away the surface sediments. Under the condition of normal temperature often wet back 1 ~ 2 hours.	Exterior No Damage (hardware should not show the serious corrosion of base metal; use of precoated profiles, the blanking surface does not affect the performance of slight corrosion are allowed.)	

PRODUC SPECIFICAION

P/N :SCT5082

18	Mating&Unmating Force	Matching connector to 1 mm/s ~ 5 mm/s speed along the plug-in unit axis direction to insert and pull out.	Poles	Insertion force(maximum)		Pull out the output(minimum)	
				1ST	6ST	1ST	6ST
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				
			14				
			15				
			16				