

Product Specification:	ISSUED BY:	Engineering Dept
Subject:	Date Issued	2015/06/02
SCT0802 Series Specification	Date Revised	2016/06/27

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1. Scope

This specification applies to SCT0801 connector series, contains the product performance, test methods and inspection requirements.

2. Spec and Part number

Specification	Production No.	Picture of Product
Terminal	SCT0802TPS164	NONE
Housing	SCT0802H-xxSBK164	NONE
Wafer	SCT0802WRS-xxF1BK164	NONE

3. Disposal of Material and surface

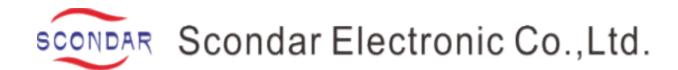
	Specification		Materials	Disposal of Surface
	Terminal		Phosphor bronze	Tin Plated: Over $70\mu''$.Nickel: Over $30\mu''$
	Housing		PA46T	UL 94V-0
	Base PIN		LCP	UL 94V-0
			Phosphor Bronze	Tin Plated: Over $70\mu''$.Nickel: Over $30\mu''$
		Solder tab	Brass	Tin Plated: Over $70\mu''$.Nickel: Over $30\mu''$

(Please Refer to the Project drawing for the above Specification)

4. Ratings and applicable wires

Item	Standard		
Rated Voltage (Max.)	30V [AC/DC]		
Rated Current (Max.)	0.5A	[AC/DC]	
Ambient temperature Range	-25C~+85C		
Applicable wire insulation O. D	AWG 32-36# Insulation O. D. 0.6mm(Max.)		

^{*} Including terminal temperature rise.



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5. PERFORMANCE

5-1. Electrical Performance.

[Item]		【Test Condition】	【 Requirement】
5-1-1	Contact Resistance	Mate connectors, measure by dry circuit, 20 mV MAX, 10 mA. (Based upon EIA-364-06A).	Initial: 20 milliohms Max.
311	Resistance	A B	After Test: 40 milliohms Max.
5-1-2	Insulation Resistance	Mate connectors, apply 250V DC between adjacent terminal or ground. (Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond.B)	100 Megohms Min.
5-1-3	Dielectric Strength	Mate connectors, apply 200V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)	No Breakdown and Flashover
5-1-4	Contact resistance on crimped portion	Crimp the applicable wire on to the terminal measure by dry circuit 20mV MAX, 10mA.	20 milliohms Max.



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5-2. Mechanical Performance.

	[Item]	[Test Condition]	【 Require	ment]
5-2-1	Insertion & withdraw Force	Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute.	Refer to paragraph 6	
5-2-2	Terminal/ Housing Retention Force	Apply axial pull out force at the speed rate of 25.4±3mm/minute on the terminal assembled in the housing.	3.43N {0.35kgf} Min.	
5-2-3	Terminal Insertion Force	Insert the crimped terminal into the housing.	4.9N {0.5kgf} Max.	
5-2-4	Pin Retention Force	Apply axial push force at the speed rate of 25.4±3mm/minute.	2.5N {0.25kgf} Min.	
			AWG#	#32
	Tensile strength	Fix the crimped terminal, apply axial pull out forcon the wire. (Do not crimp insulation part).	Spec.kgf. Min.	0.3
5-2-5	(Crimped connections)	Contact Wire Pulling load	Note> As for unspecified v sizes in this specification de values with clients	



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5-3. Environmental Performance and Others.

[Item]		【Test Condition】	[Req	uirement]
5-3-1	Repeated Insertion/ Withdrawal	When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	Contact Resistance	40 milliohms Max.
5-3-2	Temperature Rise	Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the termperature rise. (EIA364-70,Method 1)	Temperature rise	30°C Max.
			Appearance	No Damage
5-3-3	Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	Sweep time: $10\sim55\sim10$ HZ in 1 minute Duration: 2 hours in each X.Y.Z axials. (Based	resistance	40 milliohms Max.
		Discontinuity	1 micro- second Max.	
			Appearance	No Damage
5-3-4	Shock test	490m/s ² {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	Contact Resistance	40 milliohms Max.
		Method 213B Cond.A)	Discontinuity	1 micro- second Max.
F 2 F	Host Desistants	105±2°C,96 hours.	Appearance	No Damage
5-3-5	Heat Resistance (Based upon MIL-STD-202 Method Cond.A)	(Based upon MIL-STD-202 Method 108A Cond.A)	Contact Resistance	40 milliohms Max.
5-3-6	Cold Resistance	-40±5°C,96 hours. (Based upon EIA-364-105)	Appearance Contact Resistance	No Damage 40 milliohms Max.



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	[Item]	【Test Condition】	[Rec	uirement]
			Appear ance	No Damage
	Humidity	Temperature: 40±2c Relative Humidity: 90~95%	Contact Resistance	40 milliohms Max.
5-3-7		Duration: 96 hours Based upon EIA-364-31A/MIL-STD-202	Dielectric Strength	Must meet 5-1-3
		Method 103B Cond.B)	Insulation Resistance	40 Megohms Min.
	Temperature	5 cycles of: a) -40c 30 minutes.	Appear ance	No Damage
5-3-8	Cycling	b) +105c 30 minutes. (Based upon EIA-364-32B)	Contact Resistance	40 milliohms Max.
		24±1 hours exposure to a salt spray from the	Appear ance	No Damage
5-3-9	Salt Spray	5±1% solution at 35±2c . (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B).	Contact Resistance	40 milliohms Max.
5-3-10	Solder-ability	Soldering Time: 3~5second. Solder Temperature: 255±5c . (Based upon EIA-364-52)	Solder Wetting	95% of immersed area must show no voids, pin holes.
5-3-11	Solder Resistance	Soldering time:5~10 sec solder. Temperature:245+5/-5 _C . (Based upon EIA-364-56A)	Appear ance	No Damage



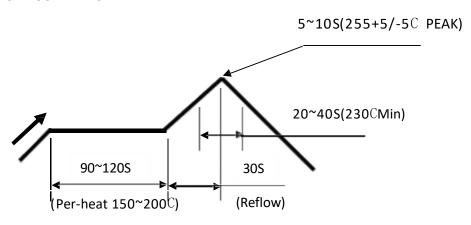
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Number of circuits	At initial		N	At initial	
	I.F. (max)	W.F. (min)	Number of circuits	I.F. (max)	W.F. (min)
2	4.00	2.00	12	10.00	3.00
3	5.00	2.00	14	14.00	4.00
4	6.00	2.00	15	14.00	4.00
5	7.00	2.50	16	14.00	4.00
6	8.00	2.50	18	15.00	4.00
7	9.00	2.50	20	15.00	4.00
8	10.00	2.50			
9	10.00	2.50			
10	14.00	3.00			
11	14.00	3.00			

Note: Insertion and Withdrawal for 30Cycles

7.SMT REFLOW CONDITION



TEMPERATURE CONDITION GRAPH/ (TEMPERATURE ON BOARD PATTERN SIDE)

Notes: Please check the reflow soldering condition by your own devices beforehand. Because the condition changes by the soldering devices, P.C. boards, and so on.