

Product Spec	ification :	ISSUED BY:	Engineering Dept
Subject :		Date Issued	2014/01/02
	2.00mm Pitch SCT2011 Series Connector Specification	Date Revised	2014/03/15
	This specification is referred to the 2.00mm series wire	to board connec	tor
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SCONDAR Scondar Electronic Co., Ltd.

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1. Scope

This Specification Covers the 2.00mm Pitch SCT2011 Series Connector Specification.

2. Spec and Part number

Specification	Production No.	Picture of Product
Terminal	SCT2011TPS107	NONE
Housing	SCT2011H-2xxBBK107	NONE
Wafer	SCT2011WR-2xxB0xx107 SCT2011WV-2xxB0BK107	NONE

3. Disposal of Material and surface

Specification		Materials	Disposal of Surface
Terminal		Phosphor Bronze	Tin Plated:Over 70 $\mu^{\prime\prime}~$,Nickel: Over 30 $\mu^{\prime\prime}~$.
Housing		PA66	UL 94V-0
Wafer	Base	PA66	UL 94V-0
	PIN	Brass	Over Tin 70 μ'' Plated; Over 30 μ'' Nickel

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

4. Ratings and applicable wires

Item	Stanc	lard		
Rated Voltage (Max.)	250V	[AC/DC]		
Rated Current (Max.)	3.0A			
Ambient temperature Range	-	25℃~+85℃		
Applicable wire insulation O.D	AWG 22#~28# Insulation	AWG 22#~28# Insulation O.D. 150mm(Max.)		

*Including terminal temperature rise.

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5. PERFO <u>5-1. El</u>	RMANCE ectrical Performa	ince.		
	Item	Test Condition	Requi	rement
5-1-1	Contact Resistance	Mate connectors, measure by dry circuit, 20mV MAX, 10mA. (Based upon EIA-364-06A).	10 millio After	tial: hms Max. ⁻ Test: hms Max.
5-1-2	Insulation Resistance	Mate connectors, apply 500V DC between adjacent terminal or ground. (Based upon EIA-364-21B/MIL-STD-202 Method 302 Cond.B)	1000 Me	egohms Min.
5-1-3	Dielectric Strength	Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A/MIL-STD-202 Method 301)		down and nover
5-1-4	Contact resistance on crimped portion	Crimp the applicable wire on to the terminal measure by dry circuit 20mV MAX, 10mA.	10 milli	ohms Max.

5-1. Electrical Performance

	ltem	Test Condition	Requirement
		Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute.	
5-2-1	Insertion & Retention Force	Header Housing Wire	Refer to paragraph 6

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<u>5-2. Me</u>	chanical Perform	ance.					
Item		Test Condition	Require	ement			
	Terminal	Apply axial pull out force at the rate of 25.4±3mm/minute terminal assembled in the housing.	9.8N {1.0kgf} Max.				
5-2-2	/Housing Retention Force						
5-2-3	Terminal Insertion Force	Insert the crimped terminal into the housing.					
		Apply axial push force at the speed of 25.4±3mm/minute.					
5-2-4	Pin Retention Force		9.8N {1.0kgf} Min.				
		Fix the crimped terminal, apply axial pull out	AWG#	#22	#24	#26	#28
	Tensile	force on the wire. (Do not crimp insulation part).	Spec. kgf. Min.	4.0	3.0	2.0	1.0
5-2-5 (Crimped connections)		Contact Wire Pulling load	Note> As for unspecified wire sizes in this specification define values with clients				

5-3. Environmental Performance and Others.

Item		Item Test Condition		Requirement		
5-3-1		When mated up to 50 cycles repeatedly by the rate of 10 cycles per minute.	Contact Resistance	20 milliohms Max.		



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	ltem	Test Condition	Requir	ement	
5-3-2	Temperature Rise	Carrying rated current load. (UL 1977)	Temperature rise	30℃ Max.	
		Amplitude: 1.5mm P-P	Appearance	No Damage	
		Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials.	Contact Resistance	20 milliohms Max.	
5-3-3	Vibration	(Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	Discontinuity	1 micro- second Max.	
			Appearance	No Damage	
5-3-4 Shock (Based upon	-3-4 Shock (Based upon EIA-364-27B/MIL-STD-202		Shock	Contact Resistance	20 milliohms Max.
	Method 213B Cond.A)	Discontinuity	1 micro- second Max.		
			Appearance	No Damage	
5-3-5	Heat Resistance	85±2℃,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	Contact Resistanc	20milliohms Max.	
			Appearance	No Damage	
5-3-6	Cold Resistance	-25±5℃,96 hours. (Based upon EIA-364-105)	Contact Resistanc	20milliohms Max.	
			Appearance	No Damage	
	Temperature: 40±2℃ Relative Humidity: 90~95%	Humidity: 90~95%	Contact Resistance	20milliohms Max.	
5-3-7	Humidity	Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	Dielectric Strength	Must meet 5-1-3	
			Insulation Resistance	500Megohms Min.	
		5 cycles of: a) -55 $^\circ C$ 30 minutes.	Appearance	No Damage	
Temperatureb) +85 °C 30 minutes.5-3-8Cycling(Based upon EIA-364-32B)		Contact Resistance	20milliohms Max.		



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Item Test Condition Requirement						
		24±1 hours exposure to a salt spray from the $5\pm1\%$ solution at 35 ± 2 °C. (Based upon	Appearance	No Damage		
5-3-9	Salt Spray	EIA-364-26A/MIL-STD-202 Method 101D Cond.B).	Contact Resistance	20milliohms Max.		
5-3-10	Solder- ability	Soldering Time: 5±0.5second. Solder Temperature: 245±5℃. (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:250+5/-5℃. (Based upon EIA-364-56A)	Appearance	No Damage		

6. INSERTION/WITHDRAWAL FORCE <Connector mating force>

No. of CKT	First Insertion (kgf Max.)	30 th Withdrawal (kgf Min.)	No. of CKT	First Insertion (kgf Max.)	30 th Withdrawal (kgf Min.)
Single	1.0	0.05	2*11	8.5	1.5
2*02	4.0	0.4	2*12	9.0	1.6
2*03	4.5	0.6	2*13	9.5	1.6
2*04	5.0	0.8	2*14	10.0	1.7
2*05	5.5	1.0	2*15	10.5	1.7
2*06	6.0	1.2	2*16	11.0	1.8
2*07	6.5	1.2	2*17	11.5	1.8
2*08	7.0	1.4	2*18	12.0	1.9
2*09	7.5	1.4	2*19	12.5	1.9
2*10	8.0	1.5	2*20	13.0	2.0

Note: Insertion and Withdrawal for 30Cyles.