



**PRODUCT SPECIFICATION**

**CKM TT-115P SERIES**

**Ø3.20mm BOARD IN TERMINAL**

**INDEX**

1. SCOPE.....P2  
 2. APPLICABLE STANDARDS.....P2  
 3. APPLICABLE SERIES NO: TT-115P SERIES.....P2  
 4. PRODUCT SHAPE, DIMENSIONS AND MATERIALS.....P2  
 5. ACCOMMODATED P.C. BOARD.....P2  
 6. RATINGS.....P2  
 7. PERFORMANCE REQUIREMENTS AND TEST DESCRIPTIONS.....P2  
 8. TEST REQUIREMENTS AND PROCEDURES SUMMARY.....P3  
 9. PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE.....P3

**REVISION HISTORY:**

REV	REVISION DESCRIPTION	DATE	CREATED/REVISED
A	INTERIM EDITION	2018/8/3	Jimmy Wang
B			
C			
D			

<b>REVISION:</b> <b>A</b>	<b>ECR/ECN INFORMATION:</b> EC No.: DATE: 2015/5/20	<b>TITLE:</b> CKM TT-115P SERIES	<b>SHEET No.</b> 1 of 3
<b>DOCUMENT NUMBER:</b> PS-TT-115P001		<b>CREATED/REVISED</b> Jimmy Wang	<b>CHECKED BY</b> Jimmy Wang
		<b>APPROVED BY</b> Angus Chen	



**1. SCOPE**

This specification contains the test requirement of subject connectors when tested under the condition and procedure with terminals crimped on the specified maximum size wire. ;

**2. APPLICABLE STANDARDS**

EIA-364-18                      Methods for test of connectors for electronic equipment  
MIL - STD - 202                Test methods for electrical connectors  
JIS C5402

**3. APPLICABLE SERIES NO: TT-115P SERIES**

Product Name	Part No.
Terminal	TT-115P

**4. PRODUCT SHAPE, DIMENSIONS AND MATERIALS**

\*See attached drawings.

**5. ACCOMMODATED P.C. BOARD**

5.1 Thickness: 1.6 mm (.063 " )  
5.2 P.C. Board Layout: See attached drawings

**6. RATINGS**

6.1 Current rating: 9.0A MAX.  
6.2 Voltage rating: 600V AC, DC  
6.3 Temperature range:-40°C to +105°C  
6.4 Applicable wire: AWG #18x3 to #18x5, Insulation O.D.: 4.80mm Max.

**7. PERFORMANCE REQUIREMENTS AND TEST DESCRIPTIONS**

The product is designed to meet the electrical, mechanical and environmental performance Requirements as specifics in **8. REQUIREMENTS.**

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**8. TEST REQUIREMENTS AND PROCEDURES SUMMARY**

TEST ITEM		REQUIREMENT	PROCEDURE
8.1	Examination of Product	Meets requirements of product drawing. No physical damage.	Per EIA-364-18 Visual inspection
<b>ELECTRICAL REQUIREMENT</b>			
8.2	Contact Resistance	10mΩ Max (Initial) 20mΩ Max (Final)	Dry circuit of DC 20 mV max. , 10 mA max.(JIS C5402 5.4)
<b>MECHANICAL REQUIREMENT</b>			
8.3	Terminal crimp Tensile strength	9.0 kgf Min.	Fix the crimped terminal, apply axial pull out force on the wire at speed rate of 25±3 mm/minute (Based upon JIS C5402 6.22)
8.4	Terminal Insertion Force	1.2kgf Min.	Press the crimped terminal into the P.C.B, Retention speed 25±3 mm per minute.
8.5	Terminal Retention Force	1.5kgf Min.	Apply axial pull out force at the speed on the terminal assembled in the P.C.B, Retention speed 25±3 mm per minute.
<b>ENVIRONMENTAL REQUIREMENTS</b>			
8.6	Salt spray	Appearance: No damage Contact resistance: 20mΩ Max (Final)	Temperature: 35±2°C Solution: 5±1% Spray time: 48±4 Hours Measurement must be taken after water rinse(JIS C5402 7.1/MIL-STD-202, method 101 D, condition B)
8.7	Solder ability	Minimum: 95% of immersed area	Lead-Free Process for DIP Type: Soldering time: 3±0.5 second Soldering pot: 245±5°C

**9. PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE**

Test or Examination	Test Group										
	A	B	C	D	E	F	G	H	I	J	K
	Test Sequence (a)										
Examination of Product	1,8	1,7	1	1	1,3	1	1,5	1,5	1,4	1,3	1,3
Contact Resistance	2,7	2,6					2,4	2,4	2,3		
Terminal crimp Tensile strength			2								
Terminal Insertion Force				2							
Terminal Retention Force				2							
Salt spray									3		
Solder ability										2	
Sample Size	5	5	5	5	5	5	5	5	5	5	5

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