	connecto CE	ors						
	SPECIFICATIO	DN						
宏致	文 電 子 股 份 有	限公司						
	桃園縣中壢市東園路1	3號						
	No.13, Dongyuan Rd., Jhongli	City,						
	Taoyuan County 320, Taiwan (I	R.O.C.)						
	TEL: +886-3-463-280 FAX: +886-3-463-180							
SPEC. NO.: <u>PS-504</u>	<u>63-XXXX-XXX</u> R	REVISION: B						
PRODUCT NAME:	0.4 WTB COAX. REPT/PLUG	G CONN.						
PRODUCT NO:	PRODUCT NO: 50463,50464 SERIES							
PREPARED:	CHECKED:	APPROVED:						
XUFEI								
DATE: 2014/01/14	DATE: 2014/01/14	DATE: 2014/01/14						



TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

RELEASE	DATE: 2014.01.14	REVISION: B	ECN No: ECN-1401240	PAGE: 2 OF 10
1	00005			4
3				
4	REQUIREMENTS	S		4

5	PERFORMANCE	5
	INFRARED REFLOW CONDITION	
7	PRODUCT QUALIFICATION AND TEST SEQUENCE	9
8	INSERTION / EXTRACTION FORCE	10



TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

RELEASE DATE: 2014.01.14	REVISION: B	ECN No: ECN-1401240	PAGE: 3 OF 10

1 Revision History

Rev.	ECN #	Revision Description	Prepared	Date
1	ECN-1102068	PROPOSAL	ALEX	2011/02/18
2	ECN-1106201	ADD AWG#36~42	ALEX	2011/05/17
0	ECN-1107032	REV-O	ALEX	2011/07/02
01	ECN-1112235	ADD 14PIN	ALEX	2011/12/13
Α	ECN-1202139	REV-A	ALEX	2012/02/13
В	ECN-1401240	ADD WORKING VOLTAGE	XUFEI	2014/01/14

Page 3



TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

RELEASE DATE: 2014.01.14	REVISION: B	ECN No: ECN-1401240	PAGE: 4 OF 10

2 SCOPE

This specification covers performance, tests and quality requirements for 0.4 WTB COAX CONN. REPT CONN. P/N : 50463 PLUG CONN. P/N : 50464

3 APPLICABLE DOCUMENTS

EIA-364: ELECTRONICS INDUSTRIES ASSOCIATION

4 REQUIREMENTS

4.1 Design and Construction

- 4.1.1 Product shall be of design, construction and physical dimensions specified on applicable product drawing.
- 4.1.2 All materials conform to R.o.H.S. and the standard depends on TQ-WI-140101.

4.2 Materials and Finish

- 4.2.1 Contact: High performance copper alloy (Phosphor Bronze)
 - Finish: (a) Contact Area: Refer to the drawing.
 - (b) Under plate: Refer to the drawing.
 - (c) Solder area: Refer to the drawing.
- 4.2.2 Housing: Thermoplastic or Thermoplastic High Temp., UL94V-0
- 4.2.3 Fitting Nail : Copper Alloy, Finish: Refer to the drawing.

4.3 Ratings

- 4.3.1 Working voltage less than 36 volts (per pin)
- 4.3.2 Voltage: 100 Volts AC (per pin)
- 4.3.3 Current: Coaxial cables AWG#36~42, 0.24 Amperes /pin
- 4.3.4 Operating Temperature : -40°C to +85°C



TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

RELEASE DATE: 2014.01.14

ECN No: ECN-1401240

5 Performance

5.1. Test Requirements and Procedures Summary

REVISION: B

ltem	Requirement	Standard			
Examination of Product	Product shall meet requirements of applicable product drawing and specification.	Visual, dimensional and functional per applicable quality inspection plan.			
	ELECTRICAL				
ltem	Requirement	Standard			
Low Level Contact Resistance	$60 \text{ m } \Omega$ Max.(initial)per contact $\triangle R 40 \text{ m } \Omega$ Max.	Mate connectors, measure by dry circuit, 20mV Max., 100mA Max. (EIA-364-23)			
Insulation Resistance	Initial :1000 M Ω Min. Finish:500 M Ω Min.	Unmated connectors, apply 250 V DC between adjacent terminals. (EIA-364-21)			
Dielectric Withstanding Voltage	No discharge, flashover or breakdown. Current leakage: 1 mA max.	250 VAC Min. at sea level for 1 minute. Test between adjacent contacts of unmated connectors. (EIA-364-20)			
Temperature Rise	30℃ Max. Change allowed	Mate connector: measure the temperature rise at rated current until temperature stable. The ambient condition is still air at 25% (EIA-364- 70,METHOD1,CONDITION1)			

MECHANICAL						
Item	Requirement	Standard				
	The sample should be mounted in the tester and fully mated and unmated the number of cycles specified at the rate of 25.4 ± 3 mm/min. (EIA-364-09)					
Mating / Unmating Forces	See item 8	Operation Speed : 25.4 ± 3 mm/minute Measure the force required to mate/umate connector. (EIA-364-13)				
Retention Force	30gf Min.	Operation Speed : 25.4 ± 3 mm/minute. Measure the contact retention force with tester.				



TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

RELEASE DATE: 2014.01.14	REVISION: B	ECN No: ECN-1401240	PAGE: 6 OF 10
Vibration	1 μs Max.	be 100 mA maxim contacts. Subject harmonic motion of 0.76mm (1.52) total excursion) in between the limit The entire freque 10 to 55 Hz and shall be traverse 1 minute. This m applied for 2 hou	to a simple having amplitude mm maximum n frequency ts of 10 and 55 Hz. ency range, from return to 10 Hz, d in approximately notion shall be rs in each of three dicular directions.
Shock (Mechanical)	1 μs Max.	pulses of 11 milli Three shocks in shall be applied a	ue) half-sine shock seconds duration. each direction along the three dicular axes of the 8 shocks). The ndition shall be n for all contacts.

ENVIRONMENTAL							
ltem	Requirement	Standard					
Thermal Shock	See Product Qualification and Test Sequence Group 4	Mate module and subject to follow condition for 5 cycles. 1 cycles: -55 +0/-3 ℃, 30 minutes +85 +3/-0 ℃, 30 minutes (EIA-364-32, test condition I)					
Humidity	See Product Qualification and Test Sequence Group 4	Mated Connector 40°C , 90~95% RH, 96 hours. (EIA-364-31,Condition A, Method II)					
Temperature Life	See Product Qualification and Test Sequence Group 5	Subject mated connectors to temperature life at 85°C for 96 hours. (EIA-364-17, Test condition A)					

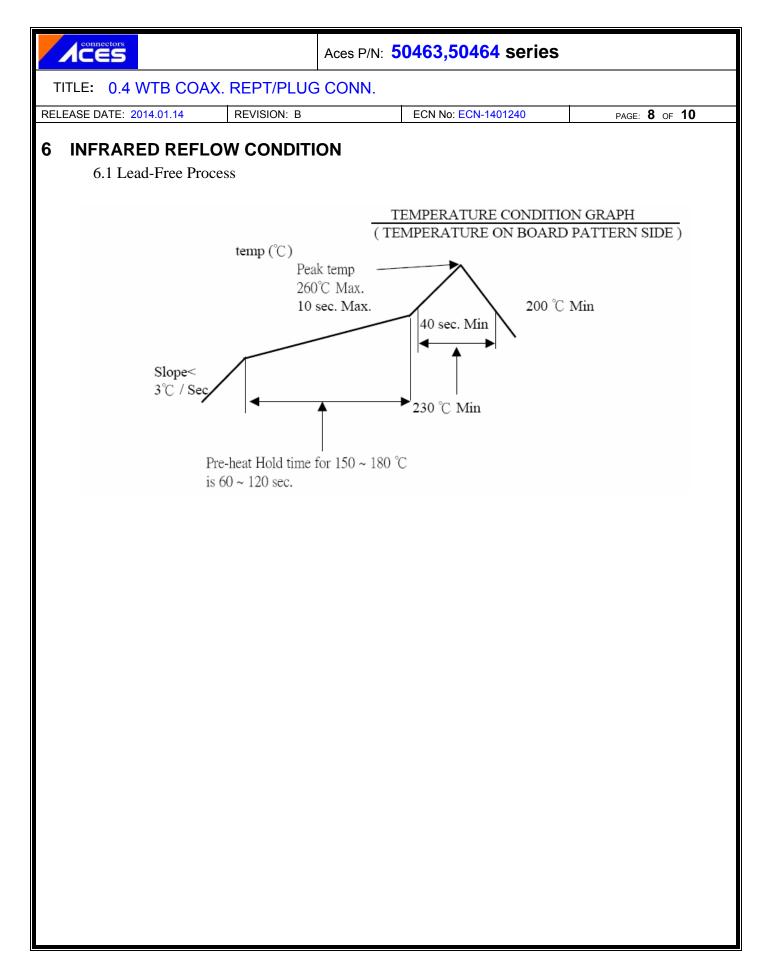


TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

SE DATE: 2014.01.14	REVISION: B	ECN No: EC	CN-1401240	PAGE: 7 OF 10
Salt Spray (Only For Gold Plating)			Subject mated/uni connectors to 5% concentration, 35° 48 hours (EIA-364-26)	salt-solution
Resistance to Reflow Soldering Heat (REPT SIDE)	See Product Quali Sequence Group ²	fication and Test	Pre Heat ∶ 150°C∼ 60~120sec. Heat ∶ 230°C Min. Peak Temp. ∶ 260 10	, 40sec Min.
Solder ability	Tin plating: Solder able area s minimum of 95% s Gold plating: Solder able area s minimum of 75% s	older coverage. hall have	And then into sold Temperature at 24 sec. (EIA-364-52)	,
Hand Soldering Temperature Resistanc	Appearance: No d		T≧350°C, 3sec at	least.

Note. Flowing Mixed Gas shell be conduct by customer request.

Page 7





TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

RELEASE DATE: 2014.01.14

ECN No: ECN-1401240

7 PRODUCT QUALIFICATION AND TEST SEQUENCE

REVISION: B

					Te	st Gro	up			
Test or Examination		2	3	4	5	6	7	8	9	
	Test Sequence									
Examination of Product	1、4	1、6	1、6	1、8	1、7	1、5	1	1	1	
Low Level Contact Resistance		3、7	3 • 7	3、9	3、8	3、6				
Insulation Resistance				4、10	4、9					
Dielectric Withstanding Voltage				5、11	5、10					
Temperature Rise	3									
Mating / Unmating Forces		4 • 8								
Durability		5								
Contact Retention Force(Rept Side)							2			
Vibration			4							
Shock (Mechanical)			5							
Thermal Shock				6						
Humidity				7						
Temperature Life					6					
Salt Spray(Only For Gold Plating)						4				
Resistance to Soldering Heat	2	2	2	2	2	2				
Solder ability								2		
Hand Soldering Temperature Resistance									2	
Sample Size	2	4	4	4	4	4	4	2	4	



TITLE: 0.4 WTB COAX. REPT/PLUG CONN.

REVISION: B

RELEASE DATE: 2014.01.14

ECN No: ECN-1401240

PAGE: 10 OF 10

8 Mating / Unmating Force

NO. OF Ckt.	Initial/ After 30 th Cycle	
	Mating Force (Max.)	Unmating Force (Min.)
10	29N	1.2N
14	30N	1.45N
20	31N	1.76N
30	33N	2.65N
40	35N	3.5N

Page 10



单击下面可查看定价,库存,交付和生命周期等信息

>>ACES(宏致)