Connectors JOE SPECIFICATION ACES Electronics Co.,Ltd. No.13, Dongyuan Rd., Jhongli City,										
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Таоу	ruan County 320, Taiwan (R.O.	C.)								
	L: +886-3-463-2808 X: +886-3-463-1800									
SPEC. NO.: PS-51023-XX	KXXX-XXX REV	VISION: <u>A</u>								
PRODUCT NAME: 0.4m	m BOARD TO FPC CONN.	SMT D/R S/T TYPE								
PREPARED:	CHECKED:	APPROVED:								
TSO I CHIAO	TSO I CHIAO Chen, Chun Yuan Wang, chun sheng									
DATE: 2018/02/23	DATE: 2018/02/23	DATE: 2018/02/23								

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ICES	Aces P/N: 51023 S	eries
TITLE: 0.4MM BOARD TO	O FPC CONN. SMT D/R S/T TYPE	
RELEASE DATE: 2018/02/23	REVISION: A ECN N	No: 1802162 PAGE: 2 OF 9
2 SCOPE 3 APPLICABLE D 4 REQUIREMEN 5 PERFORMANC 6 INFRARED REF	FLOW CONDITION ALIFICATION AND TEST SEQU	

CES	Aces P/N: 51023 Series

TITLE: 0.4MM BOARD TO FPC CONN. SMT D/R S/T TYPE

RELEASE DATE: 2018/02/23

REVISION: A ECN No: 1802162

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1 Revision History

Rev.	ECN #	Revision Description	Prepared	Date
1	1204097	FOR PDR APD1010070 NEW REV	ALEX	2012/04/30
0	1401217	RELEASE	CARL	2013/12/31
Α	1802162	Durability Increase to 50 cycles	TSO I CHIAO	2018/02/23

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			Aces P/N: 51023 Series	
т	ITLE: 0.4MM	BOARD TO FPC CONN. S	MT D/R S/T TYPE	
REL	EASE DATE: 201	8/02/23 REVISION: A	ECN No: 1802162	PAGE: 4 OF 9
2	SCOPE			
		fication covers perform CONN. SMT D/R S/T TY	ance, tests and quality requirements PE	s for 0.4mm BOARD
3	APPLICA	BLE DOCUMENTS		
	EIA-364: E	LECTRONICS INDUSTR	IES ASSOCIATION	
4	REQUIRE	MENTS		
	4.1 Design a	and Construction		
	4.1.1	applicable product draw	•	-
	4.1.2	All materials conform to	R.o.H.S. and the standard depends on	TQ-WI-140101.
	4.2 Material	s and Finish		
	4.2.1	Finish: (a) Contact Ar (b) Under plat	ee copper alloy (Phosphor Bronze) ea: Refer to the drawing. e: Refer to the drawing. a: Refer to the drawing.	
	4.2.2		r Thermoplastic High Temp., UL94V-0	
	4.2.3	Fitting Nail: Copper Alloy	, Finish: Refer to the drawing.	
	4.3 Ratings			
	4.3.1 4.3.2 4.3.3	Working Voltage Less th Voltage: 60 Volts AC/D0 Current: 0.3 Amperes (C (per pin)	
	4.3.4	All pins can ca Operating Temperature	arry 5A Max.	
			Page 4	
			201	3/02/20 TR-FM-73015L

	Aces P/N: 51023 Seri	es
: 0.4MM BOARD TO FP	C CONN. SMT D/R S/T TYPE	
DATE: 2018/02/23	EVISION: A ECN No: 18	802162 PAGE: 5 OF
erformance		
Test Requirements and	Procedures Summary	
ltem	Requirement	Standard
	Product shall meet requirements of	
Examination of Product	applicable product drawing and	per applicable quality inspection
	specification.	plan.
ltem	Requirement	Standard
пет	Requirement	Mate connectors, measure by dry
Low Level	70 m Ω Max.(initial)per contact	circuit, 20mV Max., 100mA
Contact Resistance	90 m Ω Max.(finish)	Max.
		(EIA-364-23)
		Unmated connectors, apply
Insulation Resistance	1000 M Ω Min.	250 V DC between adjacent terminals.
		(EIA-364-21)
		150 VAC Min. at sea level for 1
Dielectric	No discharge, flashover or	minute.
Dielectric Withstanding Voltage	breakdown.	Test between adjacent contacts of
withstanding voltage	Current leakage: 1 mA max.	unmated connectors.
		(EIA-364-20)
		Mate connector: measure the temperature rise at rated current
Temperature rise	30°C Max. Change allowed	until temperature stable. The
		ambient condition is still air at 25° C
		(EIA-364-70, METHOD1, CONDITION1)
	MECHANICAL	
Item	Requirement	Standard
		The sample should be mounted in
		the tester and fully mated and
Durability	50 cycles.	unmated the number of cycles specified at the rate of
		25.4 ± 3 mm/min.
		(EIA-364-09)
		Operation Speed :
	Mating 0.981N (Max.) /Per Pin	25.4 ± 3 mm/minute
Mating/Unmating Forces	Unmating	Measure the force required to
	0.165N(Min.)/Per Pin	mate/unmate connector.
		(EIA-364-13)
Terminal / Housing		Apply axial pull out force at the
Retention Force	0.05kgf MIN.	speed rate of 25.4 ± 3 mm/minute. On the terminal assembled in the
(Rcpt. CONN.)		housing.
-		Operation Speed :
Fitting Nail /Housing		25.4 ± 3 mm/minute.
Retention Force	0.03kgf MIN.	Measure the contact retention force
(Plug/Rcpt. CONN.)		with Tensile strength tester.
(1 109/1 1091. 0 01111.)		

connectors	Aces	P/N: 51023 Series				
TITLE: 0.4MM BOARD TO FPC CONN. SMT D/R S/T TYPE						
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Vibration	1 µs Max.	be 100 mA max contacts. Subje harmonic motion of 0.76mm (1.52 total excursion) between the lim The entire frequ 10 to 55 Hz and shall be traverse 1 minute. This is applied for 2 hos mutually perpen	imum for all icct to a simple in having amplitude 2mm maximum in frequency its of 10 and 55 Hz. ency range, from return to 10 Hz, ed in approximately motion shall be urs in each of three dicular directions.			
Shock (Mechanical)	1 µs Max.	50 G's (peak va pulses of 11 mil Three shocks in shall be applied mutually perpen test specimen (electrical load co	lue) half-sine shock liseconds duration. each direction along the three dicular axes of the 18 shocks). The ondition shall be m for all contacts.			

ENVIRONMENTAL						
ltem	Requirement	Standard				
Resistance to Reflow Soldering Heat	See Product Qualification and Test (Lead Free)					
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 °C, 30 minutes +85 +3/-0 °C, 30 minutes (EIA-364-32, test condition I)				
Humidity	See Product Qualification and Test Sequence Group 4	Mated Connector 40°C, 90~95% RH, 120 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)				

ICES

Aces P/N: 51023 Series

ECN No: 1802162

TITLE: 0.4MM BOARD TO FPC CONN. SMT D/R S/T TYPE

RELEASE DATE: 2018/02/23 REVISION: A

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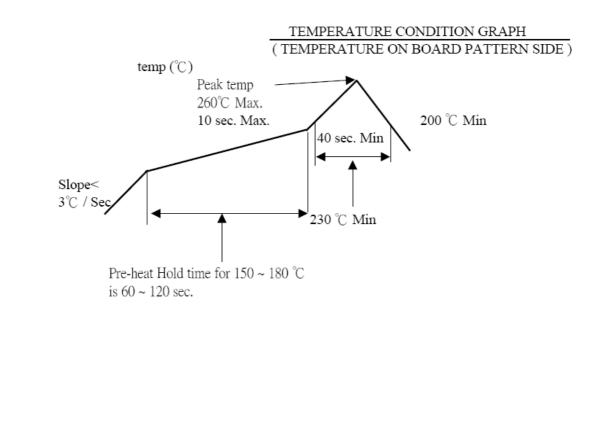
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Salt Spray (Only For Gold Plating)	See Product Qualification and Test Sequence Group 6	 Subject mated/unmated connectors to 5% salt-solution concentration, 35°C (I) Gold flash for 8 hours (II) Gold plating 5 u" or more for 96 hours. (EIA-364-26) 			
Solder ability	Tin plating: Solder able area shall have minimum of 95% solder coverage. Gold plating: Solder able area shall have minimum of 75% solder coverage	And then into solder bath, Temperature at 245 ±5°C, for 4-5 sec. (EIA-364-52)			
Hand Soldering Temperature Resistance	Appearance: No damage	T≧350°C, 3sec at least.			

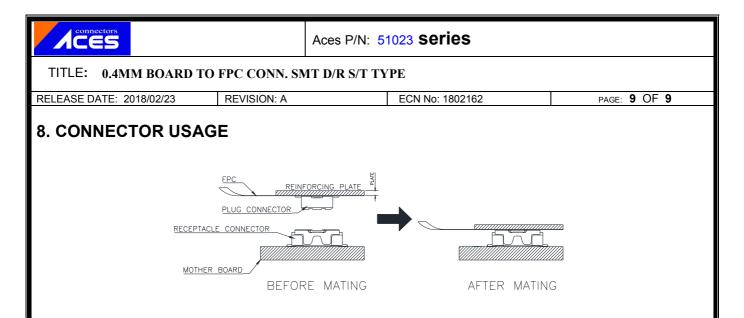
Note. Flowing Mixed Gas shell be conduct by customer request.

6 INFRARED REFLOW CONDITION

6.1. Lead-Free Process

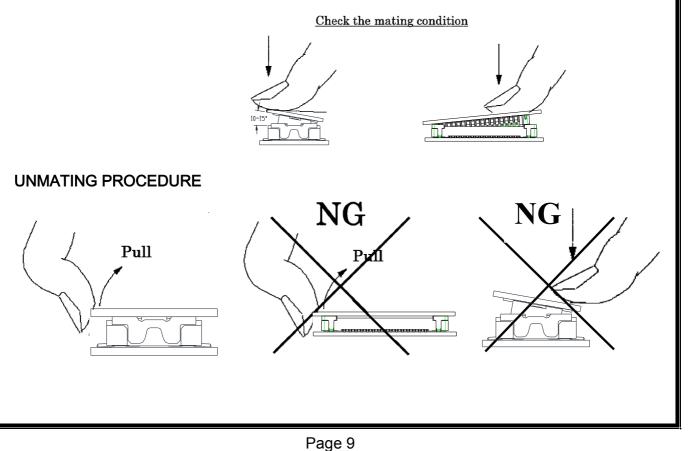


REES	Ac	es P/N	J: 510	23 SE	eries	•					
TITLE: 0.4MM BOARD TO FPC CONN. S	SMT I)/R S/]	г түр	E							
EASE DATE: 2018/02/23 REVISION: A				ECN No	o: 18021	162			PA	AGE: 8 C)f 9
PRODUCT QUALIFICATION A	٩ND	TES	T SE	QUE		:					1
					Te	st Gro	up				
Test or Examination	1	2	3	4	5	6	7	8	9		
					Test	Seque	ence				
Examination of Product	1,3	1	1	1、7	1、6	1、4			1,3		
Low Level Contact Resistance		2、6	2 \ 5	2 • 8	2 \ 7	2 \ 5					
Insulation Resistance				3 \ 9	3、8						
Dielectric Withstanding Voltage				4、10	4 • 9						
Temperature rise	2										
Mating / Unmating Forces		3、5									
Durability		4									
Vibration			3								
Shock (Mechanical)			4								
Thermal Shock				5							
Humidity				6							
Temperature life					5						
Salt Spray(Only For Gold Plating)						3					
Solder ability							1				
Terminal / Housing Retention Force (Rcpt. CONN.)			[1	[
Fitting Nail /Housing Retention Force (PLUG/Rcpt. CONN.)								2			
Hand Soldering Temperature Resistance									2		
Sample Size	2	4	4	4	4	4	2	4	4		



MATING PROCEDURE

- 1. Set the FPC block's position roughly.
- 2. Check the position of FPC block, moving it slightly.
- 3. Mate the connector until it becomes flat. (Don't push by too much force)
- 4. Check the mating state by pushing every corner of connector to prevent from Miss mating.



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单击下面可查看定价,库存,交付和生命周期等信息

>>ACES(宏致)