	ACES	5
S	PECIFICATION	
宏致電	[子股份有限	 老公司
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Taoy	uan County 320, Taiwan (R.O.0	C.)
	.: +886-3-463-2808 X: +886-3-463-1800	
SPEC. NO.: PS-51065-XX	REV	ISION: A
PRODUCT NAME:0.8m	m H=15.0mm BOARD TO E	BOARD CONNECTOR
PRODUCT NO: 5106	5 • 51066 SERIES	
PREPARED:	CHECKED:	APPROVED:
Liang,lin ji DATE: 2019/05/07	Lu,jing quan DATE: 2019/05/07	Hsieh,fu yu DATE: 2019/05/07

2010/10/31 TR-FM-73015L

	ectors ES	Aces P	/N: 51065 series	
TITLE:	0.8mm H=15.0 mm	BOARD TO BOARD C	ONNECTOR	
RELEASE D	DATE: 2019/05/07	REVISION: A	ECN No: ECN-1905122	PAGE: 2 OF 8
1 2 3 4 5 6 7	SCOPE APPLICABLE DO REQUIREMENTS PERFORMANCE INFRARED REFL	OUMENTS	EST SEQUENCE	

Page 2

2010/10/31

Connectors		Aces P/N: 5	1065 series	
TITLE: 0.8mm H=15.0 mm	BOARD TO BO	ARD CONNE	CTOR	
RELEASE DATE: 2019/05/07	REVISION: A		ECN No: ECN-1905122	PAGE: 3 OF 8

1 Revision History

Rev.	ECN #	Revision Description	Prepared	Date
1	ECN-1805365	NEW SPEC	Liang,lin ji	2018/05/27
Α	ECN-1905122	Final "1" → "A"	Liang,lin ji	2019/05/07

Page 3

2010/10/31

	CES			Aces P/N	: 51065 ser	ies	
т	ITLE: 0.8mm	n H=15.0 mm	BOARD TO BO	DARD CO	NECTOR		
REL	EASE DATE: 201	9/05/07	REVISION: A		ECN No: EC	V-1905122	PAGE: 4 OF 8
2	•		vers performa board connec		s and quality	requirements	s for 0.8mm
3	APPLICA	BLE DOC	UMENTS				
			NICS INDUST	RIES AS	SOCIATION		
4	REQUIRE	MENIS					
	4.1 Design a	and Construe	ction				
	4.1.1				ction and phys	ical dimensior	ns specified on
	4.1.2		product drawin Is conform to F		nd the standar	d depends on	TQ-WI-140101.
	4.2 Material	s and Finish					
	4.2.1	Finish: ((igh performand a) Contact Are b) Under plate c) Solder area	a: Refer t Refer to	the drawing.	or Bronze)	
	4.2.2	Housing: T	Thermoplastic of	or Thermo	plastic High Te	emp., UL94V-0	0
	4.3 Ratings						
	4.3.2 4.3.3	Voltage: 50 Current: 0.5	tage Less thar Volts AC/DC(Amperes(pe emperature:-4	per pin) r pin)			

2010/10/31

E: 0.8mm H=15.0 mm BOA	RD TO BOARD CONNECTOR					
	SION: A ECN No: EC	N-1905122	PAGE: 5 OF 8			
Performance 1. Test Requirements and		1000122				
Item	Requirement	Sta	ndard			
Examination of Product	Product shall meet requirements of applicable product drawing and specification.	Visual, dimensio	onal and pplicable quality			
	ELECTRICAL					
Item	Requirement	Sta	ndard			
Low Level Contact Resistance	$50 \text{ m } \Omega$ Max.(initial)per contact $\triangle R 20 \text{ m } \Omega$ Max.	Mate connector circuit, 20mV M Max. (EIA-364-23)	s, measure by dry ax., 100mA			
Insulation Resistance	500 M Ω Min. initial 100 M Ω Min. final	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.	150 VAC Min. at sea level for 1 minute. Test between adjacent contacts of unmated connectors. (EIA-364-20)				
Temperature rise	30°C Max. Change allowed	Mate connector: measure the temperature rise at rated current until temperature stable. The ambient condition is still air at 25°C (EIA-364- 70,METHOD1,CONDITION1)				
	MECHANICAL					
Item	Requirement	Sta	ndard			
Durability	60 cycles.	The sample sho the tester and fu unmated the nu specified at the 25.4 ± 3mm/mir (EIA-364-09)	mber of cycles rate of			
Mating / Unmating Forces	Mating Force: 0.07kgf * n (CKT) Max. Unmating Force: 0.015kgf * n (CKT) Min.	Operation Speed : 25.4 ± 3 mm/minute. Measure the force required to mate/unmate connector. (EIA-364-13)				

ACES

Aces P/N: 51065 series

TITLE: 0.8mm H=15.0 mm BOARD TO BOARD CONNECTOR

RELEASE DATE: 2019/05/07 REVISION: A

ECN No: ECN-1905122

PAGE: 6 OF 8

	MECHANICA	L
Item	Requirement	Standard
Contact Retention Force	150gf Min.	Operation Speed : 25.4 ± 3 mm/minute. Measure the contact retention force with Tensile strength tester.
Vibration	1 µs Max.	The electrical load condition shall be 100 mA maximum for all contacts. Subject to a simple harmonic motion having amplitude of 0.76mm (1.52mm maximum total excursion) in frequency between the limits of 10 and 55 Hz. The entire frequency range, from 10 to 55 Hz and return to 10 Hz, shall be traversed in approximately 1 minute. This motion shall be applied for 2 hours in each of three mutually perpendicular directions. (EIA-364-28 Condition I)
Shock (Mechanical)	1 µs Max.	Subject mated connectors to 50 G's (peak value) half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction shall be applied along the three mutually perpendicular axes of the test specimen (18 shocks). The electrical load condition shall be 100mA maximum for all contacts. (EIA-364-27, test condition A)

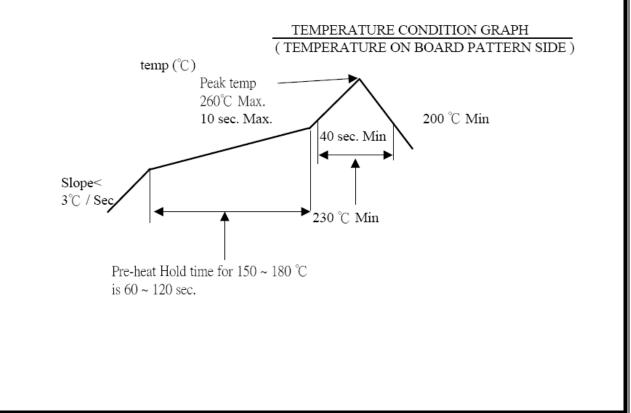
ENVIRONMENTAL								
Resistance to Reflow Soldering Heat		Pre Heat:150℃~180℃, 60~120sec. Heat:230℃ Min., 40sec Min. Peak Temp.:260℃ Max, 10sec Max.						
Thermal Shock	See Product Qualification and Test Sequence Group 4	Mate module and subject to follow condition for 5 cycles. 1 cycles: -55 +0/-3 ℃, 30 minutes +85 +3/-0 ℃, 30 minutes (EIA-364-32, test condition I)						
Humidity		Mated Connector 40°C, 90~95% RH, 96 hours. (EIA-364-31,Condition A, Method II)						

2010/10/31

CES	Ac	ces P/N: 5	1065 se	ries				
TITLE: 0.8mm H=15.0 mm	BOARD TO BOAF	RD CONNE	CTOR					
RELEASE DATE: 2019/05/07	REVISION: A		ECN No: EC	CN-1905122	PAGE: 7 OF 8			
Temperature life	See Product Sequence Gr		n and Test	Subject mated c temperature life hours. (EIA-364-17, Tes	at 85℃ for 96			
Salt Spray (Only For Gold Plating)	See Product Sequence Gr	See Product Qualification and Test Sequence Group 6			Subject mated/unmated			
Solder ability	Tin plating: Solder able a minimum of 9 Gold plating: Solder able a minimum of 7	5% solder o	coverage.	sec. (EIA-364-52)				
Hand Soldering Temperature Resistanc	e Appearance:	No damage	;	T≧350°C, 3sec	at least.			

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

6 INFRARED REFLOW CONDITION



2010/10/31

		Aces P/N: 51065 series															
ITLE:	0.8m	m H=15.0	0 mm	BOAR) TO B (OARD	CONN	1E(CTOR	ł							
EASE DA	ATE: 2(019/05/07		REVISIO	ON: A		ECN No: ECN-1905122								PAGE	: 8	of 8
PRO)DUC	CT QUA	ALIF				EST	SI	EQU								
	Test or Examination				Test Group												
	les	st or ⊨>	xam	Inatior	ı		1 2 3 4 5 6 7 8 9 Test Sequence										
Exami	xamination of Product								, 	1 • 7	1、6	1、4			Τ	1	
Low L	Low Level Contact Resistance						1 . !	5	1、4	2、10	2、9	2、5			T	3	
Insulation Resistance								·	3、9	3、8							
Dielec	ctric V	Vithstand	۱ gnit	/oltage					Ţ	4 • 8	4 \ 7						
Temperature rise					1			 									
Mating	Mating / Unmating Forces					2 \ 4	4	!									
Durabi	oility						3		 								
Contac	ict Re	etention I	Force	•					- 					1			
Vibrati	tion								2								
Shock	k (Mec	chanical)	1						3								
Therm	nal Sh	ock						\square	ا ا	5	ļ'			<u> </u>	\bot		
Humid	dity								ا ا	6	ļ'	 			\perp		
Tempe	eratur	e life						\square	ا ا		5		<u> </u>		\perp		
Salt Sp	pray(Only For	Gold	I Plating)		_	\downarrow	ا 		 '	3	 	<u> </u>	\perp		
Solder	r abili	ty						\square	ا ا	 	ļ'		1	<u> </u>	\perp		
Resist	tance	to Solde	ring	Heat			_	_	 			 		<u> </u>	+	2	
Sample Size		2	4	╡	4	4	4	4	2	4	╇	4					

单击下面可查看定价,库存,交付和生命周期等信息

>>ACES(宏致)