	L connect L CE							
	SPECIFICATI	ON						
宏 致	(電子股份有	 						
	桃園縣中壢市東園路	S 13 號						
	No.13, Dongyuan Rd., Jhor	ngli City,						
	Taoyuan County 320, Taiwar	n (R.O.C.)						
	TEL: +886-3-463-2 FAX: +886-3-463-1							
SPEC. NO.: PS-5302	29-005XX-XXX							
PRODUCT NAME:	CUSTOMER,BATTERY C 2.50 PITCH DIP TYF							
PRODUCT NO:	PRODUCT NO: 53029-005XX-XXX							
PREPARED:	CHECKED:	APPROVED:						
XHX DATE:	ERIC DATE:	JASON DATE:						
2012/09/15	2012/09/15	2012/09/15						

2010/10/31 TR-FM-73015L

CEES	Aces P/N:	53029 series	
TITLE: CUSTOMER,BA	TTERY CONNECTOR	2.50 PITCH DIP TYPE	
RELEASE DATE: 2012.09.15	REVISION: 0	ECN No: ECN-1209048	PAGE: 2 OF 9
 2 SCOPE 3 APPLICABLE DO 4 REQUIREMENT 5 PERFORMANCE 6 INFRARED REF 	DCUMENTS S E LOW CONDITION	T SEQUENCE	

Connectors	Aces P/N: 53029 series
TITLE: CUSTOMER, BATTERY CON	NECTOR 2.50 PITCH DIP TYPE

ECN No: ECN-1209048

REVISION: 0

1 Revision History

RELEASE DATE: 2012.09.15

	3			
Rev.	ECN #	Revision Description	Prepared	Date
1	ECN-1203346	PROPOSAL	WENDE	2012/04/07
0	ECN-1209048	MODIFY Current 5.0A TO 7.0A	XHX	2012/09/07

PAGE: 3 OF 9

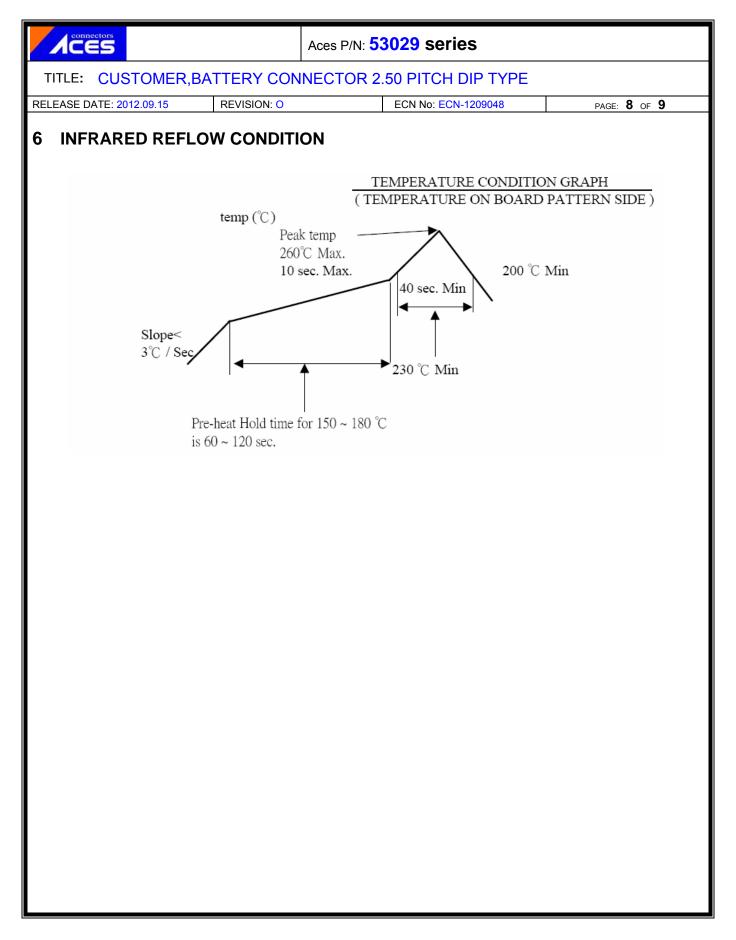
		ectors ES			Aces P/N: 53	3029 series	
Т	ITLE:	CUS	TOMER,BA	TTERY CON	NECTOR 2.	50 PITCH DIP TYPE	
REL	EASE [DATE: <mark>20</mark> 1	12.09.15	REVISION: 0		ECN No: ECN-1209048	PAGE: 4 OF 9
2	Thi			rs performance		uality requirements for CI	JSTOMER,BATTERY
3	AP	PLICA		UMENTS			
	EIA	A-364: E	ELECTRONIC	CS INDUSTRI	ES ASSOCIA	TION	
4	RE	QUIRE	EMENTS				
	4.1	Design	and Construe	ction			
			the applicab	e sales drawir	ng.	truction and physical dim	-
	4.0		als and Finisl		0.H.S. and th	e standard depends on T	Q-VVI-140101.
	4.Z						
			Finish: Pls. Housing: Th Board Lock: Finish: Pls Screw: High	h performance refer to the dra ermoplastic of High performance refer to the dra refer to the dra	awing. r Thermoplas ance copper rawing. copper alloy	tic High Temp., UL94V-0	
	4.3	Rating	s				
		4.3.1 4.3.2 4.3.3	Current: 7.0	V AC (per pir) Amperes (per emperature : -	er pin)		

			Aces P/N	: 53029 :	series			
E: Cl	JSTOMER,BA	TTE	RY CONNECTOR	R 2.50 PIT	ICH DIP TYPE			
E DATE:	2012.09.15	REVI	SION: O	ECN N	o: ECN-1209048	PAGE: 5 OF 9		
	mance							
		s and I	Procedures Summ	anv				
. 163	a requirementa	s anu i		ary				
	ltem		Requirem		Stan			
Exam	nination of Proc	luct	Product shall meet requirements of ap product drawing ar specification.	plicable	Visual, dimensiona per applicable qua plan.			
				TRICA	L			
	Item		Requirem		Stan	dard		
Low I Conta	Level act Resistance		20 m Ω Max.(initia contact △R 20 m Ω Max.		Mate connectors, measure by dry circuit, 20mV Max., 100mA Max. (EIA-364-23) Unmated connectors, apply 500 V DC between adjacent terminals. (EIA-364-21)			
Insula	ation Resistanc	e	500 M Ω Min.					
	lectric hstanding Voltage No discharge, flashover or breakdown. Current leakage: 1 mA max. (EIA-364-21) 300 V AC Min. at s minute. Test betwee contacts of unmate		een adjacent					
Temp	perature Rise		<mark>30℃</mark> Max.Change	allowed	Mate connector: m temperature rise a temperature stable condition is still air (EIA-364-70 METH 1)	t rated current unti e. The ambient at $25^\circ\!C$		
			MECH		L			
	ltem		Requirem	ent	Stan	dard		
Dura	bility		5000 cycles.		The sample should tester and fully ma the number of cycl rate of 25.4 ± 3mr	ted and unmated es specified at the		
Matir Force	ng /Unmating es		Mating force: 0.25kgf Max/ per p Unmating force: 0.02kgf Min/ per p		Operation Speed : 25.4 ± 3 mm/minut Measure the force mate/unmate conr (EIA-364-13)	te required to		

	Aces P/N	: 53029 series				
CUSTOMER,BA	TTERY CONNECTOR	R 2.50 PITCH DIP TYP	PE			
DATE: 2012.09.15	REVISION: 0	ECN No: ECN-1209048	PAGE: 6 OF			
Contact Retention Force	0.5kgf Min.	Operation Sp 25.4 ± 3 mm Measure the with tester.				
Vibration Shock (Mechanical)	1 μs Max. 1 μs Max.	100 mA max Subject to a s having ampli (1.52mm ma in frequency and 55 Hz. range, from to 10 Hz, sha approximatel shall be appl of three mutu directions. (EIA-364-28 Subject mate 50G's(peak v pulses of 11 Three shocks be applied al perpendicula specimen (18 load conditio maximum for	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			
			test Condition A)			
Item	Requirem	NMENTAL	Standard			
Resistance to Wave Soldering Heat	See Product Quali and Test Sequenc 10 (Lead Free)	fication Solder Temp	.:			
Resistance to Reflow Soldering Heat	See Product Quali and Test Sequenc 10 (Lead Free)	fication e Group Heat : 230°C	50℃~180℃, 60~120sec Min., 40sec Min. :260℃Max, 10sec			
Thermal Shock	See Product Quali and Test Sequenc	fication for 5 e Group 4 +85 +3/-0 ℃, 3	Mate module and subject to follow condition for 5 cycles. 1 cycles:			

CUSTOWER, DATTE	RY CONNECTOR 2.50 PIT			
E DATE: 2012.09.15 REV	ISION: O ECN N	o: ECN-1209048	PAGE: 7 OF 9	
Humidity	See Product Qualification and Test Sequence Group 4	Mated Connector 40°C, 90~95% RH 96 hours. (EIA-364-31,Condition		
Temperature Life	See product Qualification and test sequence group 5	Subject mated connectors to		
Salt Spray (Only For Gold Plating)	See Product Qualification and Test Sequence Group 6	Subject mated/unn to 5% salt-solution 35° (I) Gold flash for 8 (II) Gold plating 5 t (EIA-364-26)	concentration,	
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 solde Temperature at 24 sec. (EIA-364-52)		
Hand Soldering Temperature Resistance	Appearance: No damage	T≧350℃, 3sec at	least.	

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



CORES	Aces	8 P/N:	5302	9 se	ries					
TITLE: CUSTOMER, BATTERY CON	INEC	TOR	2.50	PITCI	H DIF	• TYP	Е			
ELEASE DATE: 2012.09.15 REVISION: O			EC	N No: E	CN-120	9048			PAGE:	9 OF
PRODUCT QUALIFICATION A	ND T	EST	SEQ	UEN	CE					
					Test (Group				
Test or Examination	1	2	3	4	5	6	7	8	9	10
				Т	est Se	quenc	e			
Examination of Product	1,3			1,7	1,6	1,4			1,4	
Low Level Contact Resistance		1,5	1,4	2,10	2,9	2,5			2,5	
Insulation Resistance				3,9	3,8					
Dielectric Withstanding Voltage				4,8	4,7					
Temperature Rise	2									
Mating / Unmating Forces		2,4								
Contact Retention Force								1		
Durability		3								
Vibration			2							
Shock(Mechanical)			3							
Resistance to Soldering Heat									3	
Thermal Shock				5						
Humidity				6						
Temperature Life					5					
Salt Spray(Only For Gold Plating)						3				
Solder ability							1			
Hand Soldering Temperature Resistance										1
Sample Size	2	4	4	4	4	4	2	4	4	4