		EVISION: <u>O</u>
	3.5mm Pitch SPEAKER CONN.	. SMT TYPE
PREPARED:	50984-XXXXX-XXX CHECKED:	APPROVED:
JAMESLEN	RYAN	JASON
DATE: 2009/06/30	DATE: 2009/06/30	DATE: 2009/06/30

		Ace	s P/N: 50984-xxxxx-xxx ser	ies
TITLE:	3.5mm Pitch SF	EAKER CONN. SM	Т ТҮРЕ	
RELEASE	DATE: 2009/10/05	REVISION: O	ECN No: ECN0910004	PAGE: 2 OF 8
1 2 3 4 5 6 7	SCOPE APPLICABLE I REQUIREMEN PERFORMANC INFRARED RE	DOCUMENTS TS E FLOW CONDITION	TEST SEQUENCE	

			А	ces P/N: 50	984-xxxxx-xxx s	series	
ТІТ	TLE: 3.	5mm Pitch SPEA	AKER CONN. S	MT TYPE			
RELE	ASE DATE	: 2009/10/05	REVISION: O		ECN No: ECN0910004	P/	AGE: 3 OF 8
1	Revisi	on History					
	Rev.	ECN #	Revision Des	scription		Approved	Date
	0	ECN-0910004	RELEASED			JASON	2009/10/05

				Aces P/N: 50	984-xx	xxx-xxx seri	es
Т	TTLE: 3.5m	nm Pitch SPEA	AKER CONN.	SMT TYPE			
REL	EASE DATE: 2	009/10/05	REVISION: O		ECN No: EC	CN0910004	PAGE: 4 OF 8
2	SCOPE This speci	fication covers	performance, te	ests and quality	requireme	nts for SPEAKER	connector.
3	APPLIC		UMENTS				
	EIA-364	ELECTRO	ONICS INDUST	TRIES ASSOC	IATION		
4	REQUIR	EMENTS					
	4.1 Desigr	and Construc	ction				
	4.1.1				n and phy	sical dimensions	s specified on
	4.1.2		product drawir Is conform to F		he standa	rd depends on 7	ΓQ-WI-140101.
	4.2 Materia	als and Finish					
	4.2.1	Finish: ((b) Under plate	a: Gold plated Nickel-plated Gold plated	d based of d all over based on	n order informat order informatio	
	4.3 Rating	-	ermoplastic of	r nermoprastie i	ingn remp	., OL94 V-0	
	U		Volts AC (per	nin)			
	4.3.2	2 Current: 1.0	Amperes (per emperature : -4	er pin)	2		
5	Perform	ance					
	5.1. Test F	Requirements	and Procedure	es Summary			
		ltem		Requiremen			idard
	Examin	ation of Produc		hall meet requir product drawir on.	ng and	visual, dimensior per applicable qu plan.	nal and functional ality inspection
				Page 4		2009/06	5/30 TR-FM-73015G

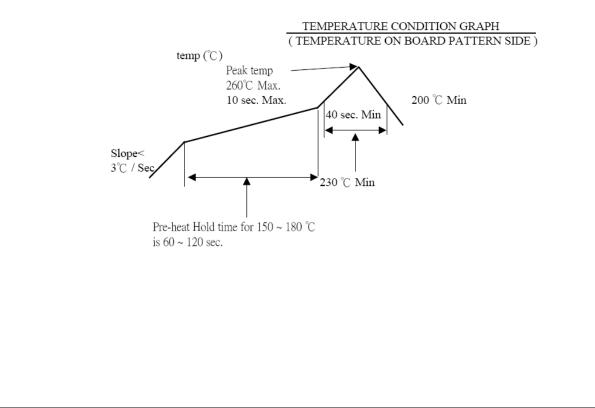
Aces P/N: 50984-xxxx-xxx series TITLE: 3.5mm Pitch SPEAKER CONN. SMT TYPE RELEASE DATE: 2009/10/05 **REVISION: O** ECN No: ECN0910004 PAGE: 5 OF 8 **ELECTRICAL** ltem Requirement Standard 30 m Ω Max.(initial)per contact Mate connectors, measure by dry 40 m Ω Max. (Final) per contact circuit, 20mV Max., 1mA Low-signal Level \triangle R 10 m Ω Max. Max. Contact Resistance (EIA-364-23) Unmated connectors, apply 500 V DC between adjacent Insulation Resistance 1000 M Ω Min. terminals. (EIA-364-21) Mate connector: measure the temperature rise at rated current after:1 A/Power contact. The 30°C Max. Change allowed temperature rise above ambient Temperature rise shall not exceed 30°C The ambient condition is still air at 25°C (EIA-364-70 METHOD 2) 300 VAC Min. at sea level for 1 Test between adjacent contacts of minute. unmated connectors. Dielectric No discharge, flashover or Withstanding Voltage breakdown. (EIA-364-20) Current leakage: 1 mA max. MECHANICAL The sample should be mounted in the tester and fully mated and unmated the number of cycles 30 cycles. Durability specified at the rate of 25.4 ± 3 mm/min. (EIA-364-09) Mate connector with a suitable gauge for each pin at rate of 25 .4mm/min. Measure force Normal Forces 0.7N MIN. when the height 1.0mm form mount side. (EIA-364-04) 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 200 Hz. The entire frequency range, Vibration 1 µs Max. from 10 to 200 Hz and return to 10 Hz, shall be traversed in approximately 20 minute. Acceleration: each direction 2.5G This motion shall be applied for 3 hours in each of three mutually perpendicular directions. (EIA-364-28 Condition I)

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ΓLE	E: 3.5mm Pitch SPEAKI	ER CONN. SMT	TYPE						
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		MEC	HANICAL						
	Item		rement	Star	ndard				
	Terminal / Housing Retention Force	0.15kgf MIN.		Apply axial pull o speed rate of 25. On the terminal a	out force at the .4 ± 3 mm/minute.				
	Shock (Mechanical)	1 μs Max.	housing. Subject mated connectors to 50 G's (peak value) half-sine pulses of 11 milliseconds dur Three shocks in each direction sh applied along the three mu perpendicular axes of the specimen (18 shocks). The elect load condition shall be 10 maximum for all contacts. (EIA-364-27, test condition A)						
		ENVIR	ONMENTA	Ĺ					
	ltem		rement	Standard					
	Resistance to Hand Soldering Heat	See Product Qua Sequence Group	lification and Test	-					
	Resistance to Reflow Soldering Heat	No deformation of Affecting perform	of components	Duration:3~4sec Max. Pre Heat : 150°C~180°C, 60~120se Heat : 230°C Min., 40sec Min. Peak Temp. : 260°C Max, 10sec Max. Mate module and subject to follow condition for 5 cycles. st 1 cycles: -40 +0/-3 °C, 30 minutes +105 +3/-0 °C, 30 minutes (EIA-364-32, test condition A)					
	Thermal Shock	See Product Qua Sequence Group	alification and Test 3						
	High Humidity Storage	See Product Qua Sequence Group	alification and Test	ation and Test 40°C, 95%RH, 24H (EIA-364-31, Test condition					
	High Humidity Operation	See Product Qua Sequence Group	alification and Test	Mated Connector					
	Cold Resistance	See Product Qua Sequence Group	alification and Test	Subject mated co	onnectors to at -30℃ for 96 Signal.				
	Hot Resistance	See Product Qua Sequence Group	alification and Test	Subject mated connectors to temperature life at 85°C for 96 hours. Measure Signal. (EIA-364-17, Test condition A)					

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TITLE: 3.5mm Pitch SPE	AKER CONN. SMT TYP	Έ		
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Damp heat cycling	See Product Qualifica Sequence Group <mark>8</mark>		→40°C 40%,1H Temp('C) 40°C -20°C <u>50 Wn</u> <u>30 Wn</u> (1	Bomin(ramp time)
Salt Spray	See Product Qualifica Sequence Group <mark>5</mark>	e Product Qualification and Test		nmated 5 salt-solution 5℃ for 8 hours. t condition B)
Solder ability	Solder able area minimum of 95% sold See Product Qualifica Sequence Group <mark>6</mark>	er coverage	And then into sol Temperature at 2 sec. (EIA-364-52)	

6 INFRARED REFLOW CONDITION

Lead-free Process



		Aces F	P/N: <mark>50</mark>)984	-xxx	xx-x	xx s	eries	6		
ITLE: 3.5mm Pitch SPEAKER C	ONN.	SMT	ГҮРЕ								
EASE DATE: 2009/10/05 REVISION	N: O			ECN	No: ECN	1091000)4		P	AGE: 8	of 8
PRODUCT QUALIFICATIO	N AN	ID TE	ST S	EQU	ENC	Е					
Test Group											
Test or Examination	1	2	3	4	5	6	7	8	9	10	11
	Test Sequence										
Examination of Product	1 \ 7	1 • 6	1 • 7	1 • 4	1 • 3			1 \cdot 3	1 • 3	1 • 4	1 \cdot 3
Low-signal Level Contact Resistance	2 • 6	2 \cdot 5	2 \cdot 10	2 \cdot 5						2 \ 5	
Insulation Resistance			3 • 9					1			
Dielectric Withstanding Voltage			4 • 8								
Normal Forces	3 \ 5										
Durability	4										
Terminal / Housing Retention Force							1				
Vibration		3									
Shock (Mechanical)		4									
Thermal Shock			5								
High Humidity Storage / High Humidity Operation			6								
Cold Resistance				3							
Salt Spray					2						
Solder ability						1					
Resistance to Soldering Heat									2		
Damp heat cycling								2			
Hot Resistance										3	
Temperature rise											2
Sample Size	4	4	8	4	4	2	4	4	4	4	2