	connector	S						
	SPECIFICATION							
宏致	x 電子股份有阻	 裂公司						
	桃園縣中壢市東園路13號	Ż						
	No.13, Dongyuan Rd., Jhongli Cit	у,						
	Taoyuan County 320, Taiwan (R.O.	C.)						
	TEL: +886-3-463-2808 FAX: +886-3-463-1800							
SPEC. NO.: PS-3093	B5-XXXX-XXX RE	VISION: O						
PRODUCT NAME: _	RJ45 IMC 10/100 Base-T, WITH	LED						
PRODUCT NO:	30935 SERIES							
PREPARED:	CHECKED:	APPROVED:						
DENG JIAN XIAN	DENG JIAN XIANG TENG CHANG HO KUO JUNG HSUN							
DATE: 2018/06/14	DATE: 2018/06/14	DATE: 2018/06/14						

Connectors	Aces P/N: 30935 series
TITLE:RJ45 IMC 10/100 Base-T, WIRELEASE DATE:2018.06.14REVISION:O	ECN No: ECN-1806226 PAGE: 2 of 8
 SCOPE	3 4 4 5 3 CONDITION 7 ND TEST SEQUENCE.8

connectors
CES

Aces P/N: 30935 series

TITLE: RJ45 IMC 10/100 Base-T, WITH LED

RELEASE DATE: 2018.06.14

REVISION: O

ECN No: ECN-1806226

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1 Revision History

Rev.	ECN #	Revision Description	Prepared	Date	
O ECN-1806226		NEW SPEC	DENG JIAN XIANG	2018.06.14	

				Aces P/N: 3	0935 series	
	TITLE: R	J45 IMC 10/100) Base-T, WI	TH LED		
R	ELEASE DATE	2018.06.14	REVISION: O		ECN No: ECN-1806226	PAGE: 4 OF 8
2	SCOPE					
		ification covers ∣ C 10/100 Base-		tests and qua	lity requirements for	
3	APPLIC	ABLE DOCU	MENTS			
	EIA-364:	ELECTRONICS	INDUSTRIES	SASSOCIATI	ON	
4	REQUI	REMENTS				
	4.1 Desig	n and Construct	ion			
	4.1.1	Product shall b product drawing	•	onstruction ar	nd physical dimensions sp	ecified on applicable
	4.1.2		0	S and the sta	ndard depends on TQ-WI	-140101.
	4.2 Mater	ials and Finish				
	4.2.1	(b) U	ontact Area: F nder-plating: F	Refer to the in Refer to the ir	dividual drawings. idividual drawings. ividual drawings.	
	4.2.2	-	noplastic or Th to the individ	•	High Temp., UL94V-0	
	4.2.3	Shell: Stainless Finish: (a) P	Steel or Copp lating: Refer to		al drawings.	
	4.3 Rating	gs				
	4.3.1 4.3.2	Voltage: 150V Operating Tem				
	4.3.3	•				

Λ	connectors	Aces P/N: 30935 s	eries	
TITL	E: RJ45 IMC 10/100 E	ase-T, WITH LED		
RELEAS	E DATE: 2018.06.14	EVISION: O ECN No:	ECN-1806226	PAGE: 5 OF 8
5 PE	RFORMANCE			
5.1.	Test Requirements ar	nd Procedures Summary		
	ltem	Requirement	Stan	dard
	Examination of Product	Product shall meet requirements c applicable product drawing and specification.	f Visual, dimension per applicable qua plan.	
		ELECTRICAL		
	Item	Requirement	Stan	dard
	Low Level Contact Resistance	30 mΩ Max. (initial) 50 mΩ Max. (after test)	Mate connectors, circuit, 20mV Max (EIA-364-23)	
	Insulation Resistance	500 MΩ Min.	Un-mate connecto VDC between adj and between term (EIA-364-21)	acent terminals
	Dielectric Withstanding Voltage	No discharge, flashover or breakdown. Current leakage: 1 mA Max.	Un-mate connecto VAC at sea level f between input to o (EIA-364-20)	or 1 minute

ltem	Requirement	Standard		
Durability (Locking device inoperative)	750 cycles Contact Resistance: 30 mΩ Max. (initial) 50 mΩ Max. (after test)	The sample should be mounted in the tester and fully mated and unmated the number of cycles specified at the rate of 25.4 ± 3mm/min. (EIA-364-09) Operation Speed : 25.4±3 mm per minute. Measure the force required to mate/un-mate connector. (EIA-364-13)		
Mating / Un-mating Forces (test with RJ45 plug latch depressed)	Mating Force: 22N Max. Un-mating Force: 44N Max.			
	ENVIRONMENT	AL		
Item	Requirement	Standard		
Resistance to Soldering Heat	No damage or deformation. Contact Resistance: 30 mΩ Max. (initial) 50 mΩ Max. (after test)	Pre Heat:~130 °C at 5 °C /s Max. Peak Temp.:260 °C Max, 10sec Max. (EIA-364-56)		

connectors
CES

Aces P/N: 30935 series

TITLE: RJ45 IMC 10/100 Base-T, WITH LED

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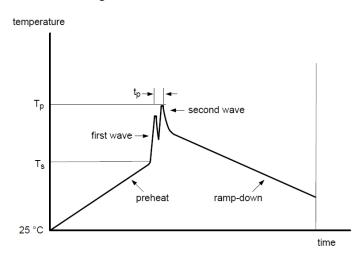
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Thermal Shock	See Product Qualification and Test Sequence Group 2	Mate module and subject to follow condition for 5 cycles. 1 cycles: -55 +0/-3 °C, 30 minutes +85 +3/-0 °C, 30 minutes (EIA-364-32, Test condition I)
Humidity	See Product Qualification and Test	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 3	Subject mated connectors to temperature life at 85 °C for 96 hours. (EIA-364-17, Test condition A)
Cold Resistance	See Product Qualification and Test Sequence Group 4	Subject mated connectors to temperature life at -40 °C for 96 hours. (EIA-364-59)
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)
Salt Spray	No damage. Contact Resistance: 30 mΩ Max. (initial) 50 mΩ Max. (after test)	Subject mated/unmated connectors to 5% salt-solution concentration, 35 °C for 48 hours (EIA-364-26)
Solderability	Solderable area shall have minimum of 95% solder coverage.	Immerse terminal tail into solder bath, and temperature at 245±5°C, for 3~5 sec. (EIA-364-52)

CES	Aces	P/N: 30935 series	
TITLE: RJ45 IMC 10/1	00 Base-T, WITH LE	ED	
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RECOMMENDED		DITION	

Profile Feature	SnPb eutectic assembly	Pb-free assembly
Average ramp-up rate	~ 200 °C/s	~ 200 °C/s
Heating rate during preheat	typical 1-2, max 4 °C/s	typical 1-2, max 4 °C/s
Final preheat temperature T_{S}	~ 130 °C	~ 130 °C
Peak temperature T _P	235 °C	260 °C
Time within peak temperature $t_{\mbox{\tiny P}}$	10 s	10 s
Ramp-down rate	5 °C/s maximum	5 °C/s maximum

Wave Soldering Profile





Aces P/N: 30935 series

TITLE: RJ45 IMC 10/100 Base-T, WITH LED

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7 PRODUCT QUALIFICATION AND TEST SEQUENCE

					Test (Group	1			
Test or Examination	1	2	3	4	5	6	7	8		
		Test Sequence								
Examination of Product	1、6	1、6	1、5	1、5	1、4	1、4	1、3	1、4		
Low Level Contact Resistance	2、7				2、5	2、5		2 \ 5		
Insulation Resistance		2 • 7	2、6	2、6						
Dielectric Withstanding Voltage		3、8	3 • 7	3、7						
Mating / Un-mating Forces	3、5									
Durability (Locking device inoperative)	4									
Thermal Shock		4								
Humidity		5								
Temperature Life			4							
Cold Resistance				4						
Vibration					3					
Salt Spray						3				
Solder ability							2			
Resistance to Reflow Soldering Heat								3		
Sample Size	4	4	4	4	4	4	2	4		