

新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd., Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

SPECIFICATION AND PERFORMANCE

Series	126B_SERIES	File	126B-SPEC_1	Date	2022/10/25
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 126B-SERIES

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIALS							
NO.	NO. PART NAME DESCRIPTION						
1	Housing	LCP, UL94-0, Black					
2	Contact	Copper alloy, 1u~3u" gold plating on contact and solder area , under plating nickel					
3	Latch	Stainless steel					

RATING							
Rated Voltage 25VAC RMS							
Rated Current	0.5A per pin						
Operating Temperature	-55°C~85°C 85%RH MAX						
Durability	50 Cycle						

	ELECTRICAL								
Item	Requirement	Test Condition							
Contact Resistance(Low Level)	$40mΩ$ Max. (Initial) \triangle R $20mΩ$ Max. (Final)	Subject mated contacts assembled in housing to closed circuit current of 100mA (Max.) at open circuit voltage of 20mV voltage (Max.). EIA-364-23							
Insulation Resistance	250 M Ω Min. (Initial) 100 M Ω Min. (Final)	Measured by applying 500VDC for 2 minutes between adjacent contacts of unmated connector. EIA-364-21							
Withstanding Voltage	No Breakdown.	Apply 500 VAC for 1 minute between adjacent contacts of unmated connector. EIA-364-20							

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Contact Current Rating	'	Rise shall not above ambient.	Contacts of the connector are connected in a series circuit, Supple the rated current (0.5 Amperes) EIA-364 Test Procedure 70 Detail in Annex C				
Reference impedance	Long Pin Short Pin	46~54Ω 46~54Ω	Mated connector and module including solder pad and gold finger. EIA-364-108				
	31101111111	40 3435					
Insertion Loss	-0.8dB (6 GH	z.0 GHz) z <f<=6 ghz)<br=""> z <f<=8 ghz)<br=""> z <f<=10 ghz)<="" td=""><td>Signals with 1:1 S/G EIA-364-101</td></f<=10></f<=8></f<=6>	Signals with 1:1 S/G EIA-364-101				
Return Loss	-15dB (4 GHz -9.0dB (6 GH	.0 GHz) z <f<=4 ghz)<br="">z <f<=6 ghz)<br="">z <f<=8 ghz)<br="">z <f<=10 ghz)<="" td=""><td>Signals with 1:1 S/G EIA-364-108</td></f<=10></f<=8></f<=6></f<=4>	Signals with 1:1 S/G EIA-364-108				
	-29.0dB (2 G -28.0dB (3 G	:1.0 GHz) Hz <f<=2 ghz)<br="">Hz <f<=3 ghz)<br="">Hz <f<=4 ghz)<br="">Hz <f<=10 ghz)<="" td=""><td>1:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90</td></f<=10></f<=4></f<=3></f<=2>	1:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90				
Near End Cross-Talk	-9.0dB (2 GH	:1.0 GHz) Hz <f<=2 ghz)<br=""> z <f<=3 ghz)<br=""> z <f<=5 ghz)<="" td=""><td>2:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90</td></f<=5></f<=3></f<=2>	2:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90				
	-42.0dB (2 G -40.0dB (3 G -38.0dB (4 G -35.0dB (6 G	Hz <f<=2 <f<="10" ghz)="" ghz)<="" hz="" td=""><td>1:1 S/G Opposite Side The victim and the aggressor locate at the opposite side. EIA-364-90</td></f<=2>	1:1 S/G Opposite Side The victim and the aggressor locate at the opposite side. EIA-364-90				
Far End Cross-Talk	-35.0dB (2 G -32.0dB (3 G -30.0dB (4 G -28.0dB (5 G -27.0dB (6 G -26.0dB (7 G	Hz <f<=2 <f<="10" ghz)="" ghz)<="" hz="" td=""><td>1:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90</td></f<=2>	1:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90				
	-30.0dB (f<= -23.0dB (1 G -20.0dB (2 G		2:1 S/G Same Side Both the victim and the aggressor locate at the same side. EIA-364-90				



-50.0dB (f<=2.0 GHz) -45.0dB (2 GHz <f<=4 ghz)<br="">-42.0dB (4 GHz <f<=6 ghz)<="" th=""><th>1:1 S/G Opposite Side The victim and the aggressor locate at the opposite side.</th></f<=6></f<=4>	1:1 S/G Opposite Side The victim and the aggressor locate at the opposite side.
-38.0dB (6 GHz <f<=8 ghz)<="" td=""><td>EIA-364-90</td></f<=8>	EIA-364-90
-35.0dB (8 GHz <f<=10 ghz)<="" td=""><td></td></f<=10>	

	MECHANI	CAL
Item	Requirement	Test Condition
Module Insertion / Withdrawal Force	Insertion force: 59.8 N (6.1kgf) Max. Withdrawal force: 44.6 N (4.55kgf) Max.	Measure the force required to mate connectors (Speed: 25.4mm/minute) EIA-364-13
Durability	Contact Resistance △R 20mΩ Max. (Final)	Connectors shall be subjected to 50 cycles of Insertion and Withdrawal. Automatic Insertion / Withdrawal Speed: 500 cycles/hour Manual Insertion / Withdrawal Speed: 250 cycles/hour EIA-364-09
Reseating	No evidence of physical Damage	Manually unplug/plug the connector or socket. Perform 3 such cycles.
Vibration	Contact Resistance △R 20mΩ Max. (Final) Discontinuity: 1μ Sec Max	Subject mated connectors 15 minutes in each of 3 mutually perpendicular directions. Both mating halves should be rigidly fixed so as not to contribute to the relative motion of one contact against another. The method of fixturing should be detailed in the test report. EIA-364-28 test condition VII, test condition letter D
Physical Shock	Contact Resistance ΔR 20mΩ Max. (Final) Discontinuity: 1μ Sec Max	The connectors shall be soldered on the P.C. board. Acceleration: 50 G. Time: 11ms. (half sine wave). Cycle: 3 drops each to normal and reversed directions of X, Y and Z axes, totally 18 drops. EIA-364-27 condition A

ENVIRONMENTAL								
Item	Requirement	Test Condition						
Thermal shock	Contact Resistance $\triangle R$ 20 m Ω Max.(Final)	Mated connectors Temperature: -55+0/-3→85+3/-0(°C) Temp. Time: 30→30(minute) Cycle: 10 cycles. EIA-364-32, condition I						
Temperature Life	Contact Resistance \triangle R 20 m Ω Max.(Final)	Mated connectors Temperature: 105°C±2°C						



		Duration: 120 hours EIA-364-17, condition IV
Temperature Life (preconditioning)	Contact Resistance △R 20 mΩ Max. (Final)	Mated connectors Temperature: 105°C±2°C Duration: 72 hours EIA-364-17, condition IV
Thermal Cycling	Contact Resistance △R 20 mΩ Max.(Final)	Mated connectors, Cycle the connector or socket between 15°C ±3°C and 85°C ±3°C, as measured on the part. Ramps should be a minimum of 2°C per minute, and dwell times, should insure that the contacts reach the temperature extremes (a minimum of 5 minutes). Humidity is not controlled. Perform 500 such cycles.
Humidity-Temperature Cycling	Contact Resistance △R 20 mΩ Max. (Final)	Mated connectors Temperature Range 25°C~65°C in temperature and 90~95% RH, Duration 10 cycles. (240hours.) EIA-364-31, Method III, Test condition B
Mixed flowing ags	Contact Resistance △R 20 mΩ Max.(Final)	Exposure unmated connector for 112 hours in MFG chamber, expose mated (to same test module mated during temp life preconditioning) connector for 56 hours in MFG chamber. EIA-364-65, class IIA
Thermal disturbance	Contact Resistance △R 20 mΩ Max.(Final)	Cycle the connector or socket between 15°C±3°C and 85°C±3°C, as measured on the part. Ramps should be a minimum of 2°C per minute, and dwell times should ensure that the contacts reach the temperature extremes (a minimum of 5 minutes). Humidity is not controlled. Perform 10 such cycles.
Salt spray	Contact Resistance △R 20 mΩ Max. (Final)	Salt concentration: 5±1% Temperature: 35°C ±2°C Testing time: 48 hours, after salt is removed by running water and a drop is removed, it is measured. EIA-364-26

SOLDER ABILITY							
Item	Requirement	Test Condition					
Solderability	95% min. of solder area 10x the magnifying glass of view	Soldering time: 4~5 Second Solder Temperature: 245°C±5°C					

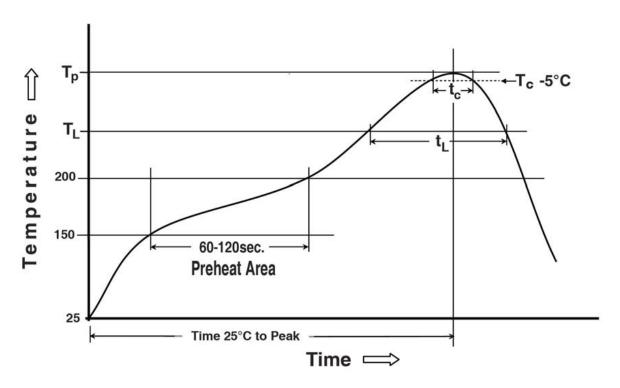


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		EIA-364-52
Resistance to Reflow Soldering Heat	No physical damage shall occur.	Test connector on PCB Pre-heat: 150°C~200°C, 60~120 Sec Heat: Up 217°C, 60~150 Sec Ramp up rate 3°C/Sec Max. Ramp down rate 6°C/Sec Max. Peak temp: 260°C Max. IPC/JEDEC J-STD-020D.1

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Reflow Profile



Preheating temperature: 150 ~ 200°C, 60~120 seconds Liquidus temperature (TL): 217°C, 60~150 seconds

Peak temperature: 260°C

Time within 5 °C of peak temperature (Tc): 255°C, 30seconds



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Product Qualifications and Test Sequence

Test of Examination		Test Group									
		В	С	D	Е	F	G	Н	I	J	K
		Test Sequence									
Examination or product	1,9	1,3	1,7	1,8	1,8	1,10	1,10	1,10	1,12	1,5	1,4
Contact resistance	2,6			2,7	2,5,7	2,5,7,9	2,5,7,9	2,5,7,9	2,5,7,9,11	2,4	
Insulation resistance	3,7										
Withstanding Voltage	4,8										
Contact Current Rating		2									
Reference impedance			2								
Insertion Loss			3								
Return Loss			4								
Near End Cross-Talk			5								
Far End Cross-Talk			6								
Module insertion / Withdrawal Force				3,6							
Durability	5			4	3	3	3	3	3		
Reseating				5	6	8	8		10		
Vibration								6			
Physical Shock								8			
Solder ability											3
Thermal Shock							4				
Temperature Life					4						
Temperature Life (preconditioning)						4		4	4		
Thermal Cycling						6	_				
Humidity-Temperature Cycling							6				
Mixed flowing gas									6		
Thermal disturbance									8		
Salt spray										3	
Resistance to Reflow Soldering Heat											2

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