



新北市汐止區新台五路一段75號6樓之二

6F-2, No.75, 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

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of RF TYPE I

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. | PART NAME | DESCRIPTION | | |
| 1 | INSULATOR | Housing: LCP UL94V-0 Natural | | |
| 2 | CONTACT | Brass, Gold flash on contact area, 50" min. nickel under plating over all | | |
| 3 | GROUND | Phosphor Bronze, Gold flash on contact area, 50" min. nickel under plating over all | | |
| | | | | |

| ELECTRICAL | | | | |
|--------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|--|
| Item | Requirement | Test Condition | | |
| Contact Resistance | Ground: Initial: $10m\Omega$ Max. Final: $15m\Omega$ Max. Inner: Initial: $20m\Omega$ Max. | Subject mated contacts assembled in housing to 20mV Max. open circuit at 10mA Max. EIA-364-06B | | |
| | Final: 25mΩ Max | | | |
| Insulation Resistance | Initial: 500M Ω Min. Final: 100M Ω Min. | Impressed voltage 100V DC for 1 minute. Test between adjacent circuits of | | |



立威科技股份有限公司 Attend Technology Inc.

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| | | mated connector. |
|--------------|-----------------|--------------------------------------|
| | | EIA-364-21C |
| Dielectric | No creeping | 200V AC for 1 minute. |
| Withstanding | discharge or | Test between adjacent circuits of |
| Voltage | flashover shall | mated connector. |
| | occur. | Current leakage: 0.5mA Max. |
| VSWR | 100MHz to 3GHz: | Mate the connector and SMA connector |
| | 1.3 Max. | together, then measure the VSWR by |
| | 3GHz to 6GHz: | the network analyzer. |
| | 1.4 Max. | EIA-364-108 |
| | · | |

| MECHANICAL | | | | |
|------------------|----------------------------------|---------------------------------------------------|--|--|
| Item | Requirement | Test Condition | | |
| Durability | No physical damage | Operation Speed: 2~3 cycles / min. | | |
| | and meet | Durability Cycles: 30 Cycles. | | |
| | | EIA-364-09C | | |
| Vibration | No momentary disconnections of 1 | Mated the connector, then Impressed the 100mA DC. | | |
| | micro-sec/min. And | Frequency : 10Hz→100Hz→10Hz / | | |
| | meet | approx 20 minutes. Half amplitude, peak value of | | |
| | | acceleration: | | |
| | | 1.5mm or 59m/s2(6G). | | |
| | | Direction: 3 mutually perpendicular | | |
| | | directions. | | |
| | | Cycle: 5 cycles for each direction. | | |
| | | EIA-364-28E | | |
| Mechanical Shock | No momentary | Accelerate Velocity: 735m/s (75G) | | |
| | disconnections of 1 | Waveform: Half-sine shock plus. | | |
| | micro-sec/min. And | Duration: 11m sec. | | |
| | meet | Direct Current: 1m A | | |
| | | Direction: In $\pm X$, $\pm Y$ and $\pm Z$ axes. | | |
| | | Cycle: 3 cycles for each direction, | | |
| | | totally 18 cycles. EI A-364-27B | | |





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| ENVIRONMENTAL | | | | |
|--------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Item | Requirement | Test Condition | | |
| Thermal Shock | No physical damage and meet | Mated Connector and apply the following test condition. Temperature: a) -40°C(30 minutes), +25°C (5 minutes) b) +85°C(30 minutes), +25°C (5 minutes) Cycle: 5 cycles | | |
| Humidity | No physical damage and meet | Mated Connector and apply the following test condition. Temperature: +40±2°C Humidity: 90~95% RH Duration: 96 Hours | | |
| Temperature Life | No physical damage and meet | Mated Connector and apply the following test condition. Temperature: +85°C Duration: 96 Hours EIA-364-17B | | |
| Salt Spray | No physical damage and detrimental corrosion. Meet | Mated Connector and apply the following test condition. Temperature: +35±2°C Salt water density: 5±1% Duration: 24 hours EIA-364-26B | | |
| Resistance to Cold | No physical damage and meet | Mated Connector and apply the following test condition. Temperature: -40±2°C Duration: 96 hours | | |

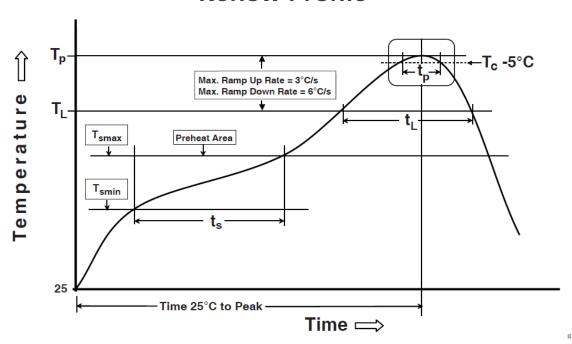
| SOLDER ABILITY | | | | | |
|----------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------|--|--|--|
| Item | Requirement | Test Condition | | | |
| Solder Ability | Dipped surface shall be wet with solder: 95% Min. | Dip the solder pin of the connector in solder bath. Temperature: +245±5°C Duration: 5±0.5 sec. | | | |
| Soldering Heat | No physical | Lead free reflow up to 260°C peak for | | | |
| Resistance | damage. | 10 sec. | | | |
| | | | | | |



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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