



Next-Generation Adaptors and Connectors for **5G NR** applications

SPE-20-8-124-A



mmWave Adaptors and Connectors Catalogue

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Introduction

mmWave Adaptors and Connectors

As 5G development continues, the diversity of applications such as high-speed communications, satellite communications, military and aerospace, alongside the everchanging demands for higher-frequency test systems are driving coaxial cable assemblies and connectors to the next level.

To allow for complete compatibility with end use-cases, the Taoglas series of connectors and adaptors, which are all cross-mateable to other industry standard connectors. The adaptors allow you to interface 2.92mm connectors with , including SMA(F), SMP(F), 2.4(F) and 2.92(F) connectors and are available in female to female, female to male combinations. The connectors and adaptors support DC of up to 40GHz frequencies, are rated to 50 Ohm impedance, while exhibiting low VSWR and low RF leakage. The connectors are precision engineered from high-quality materials and undergo stringent reliability testing to provide superior reliability for the most demanding of applications.

The 2.92mm connector was developed for compatibility up to 40 GHz. The male pin is shorter than that in a standard SMA connector and ensures that the outer contacts of the male and female connectors engage before the pin and female receptacle engage. This ensures that the pin and socket will not see excessive wear and mating stress seen by misalignment in SMA connectors for example and ensures consistent performance. The 2.92mm connector also has a thicker wall than a standard SMA connector. The 2.92mm adaptors category also includes 2 or 4 hole panel mount, PCB vertical mount and PCB edge mount configurations..

Typical Use Cases:

- 5G mmWave Networks and Communications Infrastructure
- High-frequency, small cell-based wireless access points
- MIMO ultra-high speed outdoor backhaul fixed and moving wireless access points
- Test and measurement instrumentation
- High-speed, Mil-Aero, SATCOM, and instrumentation applications

Features and Benefits:

- High-frequency bands coverage (DC to 40 GHz)
- Low Isolation
- 2.92mm cross-mateable to other industry standards
- RoHS & Reach Compliant

For configurations not listed here, we can provide solutions based on your requirements pending an MOQ, please contact your local customer services department to discuss further.

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2. 2.92mm Adaptors & Connectors

2.92mm Adaptors

2.92(F) to SMA(F) mmWave Adaptor

Part Number

292FST.SMAF.N.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤1.15	>-19.085dB	0.32dB	27GHz	50Ω
		1/4-36UNS-2A (SMA Female)	6/2 Flats	9.3±0.4 15.5±0.4	(2.92 Female) 1/4-36UNS-2A

2.92(F) to SMP(F) mmWave Adaptor

Part Number

292FST.SMPF.N.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤1.25	>-17.692dB	0.32dB	40GHz	50Ω
		1/4-36UNS-2A (2.92 Female)	- }	24.9±0.4	

2.92(F) to 2.4(F) mmWave Adaptor

Part Number

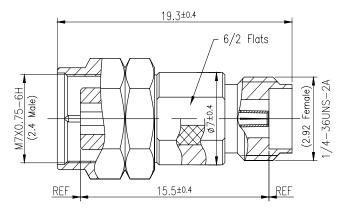
292FST.24F.N.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤1.20	> -20.828dB	0.32dB	40GHz	50Ω
		M7X0.75–6g (2.4 Female)	6/2 Flats	0.4±0.4 15.5±0.4	(2.92 Female) 1/4-36UNS-2A

2.92(F) to 2.4(M) mmWave Adaptor

Part Number

292FST.24M.N.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤ 1.20	>-19.085dB	0.32dB	40GHz	50Ω





2.92(F) to 2.92(F) mmWave Adaptor

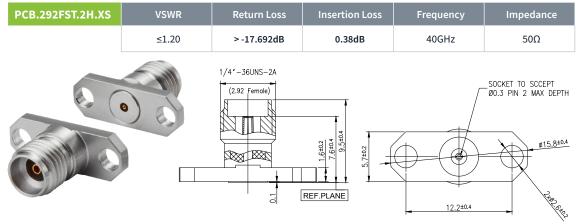
Part Number

292FST.292F.N.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤ 1.20	>-19.085dB	0.32dB	40GHz	50Ω
		1/4-36UNS-2A (2.92 Female)			Late (2.92 Female)

2.92mm on board Connectors

2.92(F) PCB Mount 2 Hole Vertical Straight on board Connector

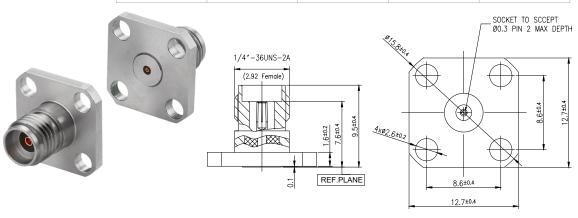
Part Number



2.92(F) PCB Mount 4 Hole Vertical Straight on board Connector

Part Number

PCB.292FST.4H.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤1.20	> -20.828dB	0.38dB	40GHz	50Ω



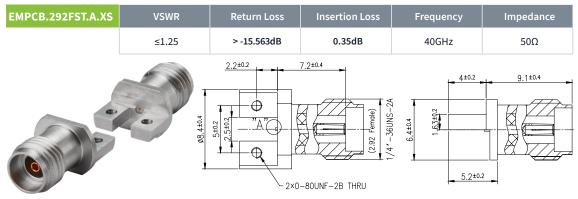
2.92(F) PCB Vertical on board Connector

Part Number

VMPCB.292FST.A.XS	VSWR	Return Loss	Insertion Loss	Frequency	Impedance
	≤1.20	>-17.692dB	0.38dB	40GHz	50Ω
		1/4'-36UNS-2A (2.92 Female)	HAN 1.6±0.2 7.6±0.4 PT 9.5±0.4 5.64±0.2	7.16±0.4	0-80UNF-2B THRU

2.92(F) Edge Mount PCB on board Connector

Part Number



3. Specifications

Contact resistance Center: Not greater than 6me External: Not greater than 6me External: Not greater than 6me External: Not greater than 5me Center: Not greater than 5me Center: Not greater than 5me Center: Not greater than 6me Center: Not greater than 6me Center: Not greater than 6me External: Not greater than 6me Center: Not greater th		Specifications							
External: Not greater than 2m0	Electrical								
Insulation resistance Withstanding voltage No flashover or breakdown 0.32dB for: 2.92(F) to 2.4(F) mm/Nave Adaptor Contact resistance: 500 cycles Center: Not greater than 8mΩ External: Not greater than 4mΩ. No broken, cracked, or loose parts Wechanical Wibration resistance MILSTD 202, Method 204, No electrical discontinuity for not less than 1μs. Condition 1, 200 Gs. No broken, cracked, or loose parts Moisture resistance MILSTD 202, Method 213, No electrical discontinuity for not less than 1μs. Condition 1, 100 Gs. No broken, cracked, or loose parts Moisture resistance of temperature/humidity cycle MiLSTD 202, Method 105, High Humidity Environment Insulation Resistance: Less Step 7B Not less than 1,000 MΩ. No broken, cracked or loose parts Salt spray MILSTD 202, Method 101, No considerable corrosion Condition B Temperature cycle No broken, cracked or loose parts Storage Temperature PCB Mount Connector Material Specifications Material Specifications Finish: Body, Insert & Contact: Bedy Weras per ASTM B16, Alloy UNS No. C38000 Material Specifications Finish: Body, Insert & Contact: Bedy Weras per ASTM B186, Alloy UNS S0.0300, Type 1 Contact: Bedy Weras Sper ASTM B48, Type II, Code C, Class 0.76, over Nickel per AMS-GQA-230, Class 1, 00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S03000, Type 1 Lock Ring & Contacts: Bedy Weras Per ASTM B18, Alloy UNS No. C38000 Beads: Polyethermide per ASTM B19, Alloy No. UNS C17300, TD04 Seeve: Brass per ASTM B16, Alloy UNS No. C38000 Beads: Silicone Rubber per ASTM 52053 Class 215, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	Contact resistance	Center: Not greater than 6mø							
Mating Cycles Contact resistance: 500 cycles Center: Not greater than 8mD External: Not greater than 1mD External: Not gre		External: Not greater than $2m\Omega$							
Mating Cycles Contact resistance: 500 cycles	Insulation resistance	1,000MΩ min.							
Contact resistance: 500 cycles	Withstanding voltage	No flashover or breakdown							
External: Not greater than 8mΩ		0.32dB for: 2.92(F) to 2.4(F) mmWave A	daptor						
External: Not greater than 4m.O. No broken, cracked, or loose parts Mechanical	Mating Cycles Contact resistance: 500 cycles								
Wechanical Vibration resistance MIL-STD-202, Method 204, No electrical discontinuity for not less than 1µs. No broken, cracked, or loose parts Shock resistance MIL-STD-202, Method 213, No electrical discontinuity for not less than 1µs. No broken, cracked, or loose parts Moisture resistance of temperature/humidity cycle MIL-STD-202, Method 106, Less Step 7B Day the stronger from the sulation Resistance: Not less than 1,000MΩ. No broken, cracked or loose parts Salt spray MIL-STD-202, Method 101, Condition B No considerable corrosion Temperature cycle No broken, cracked or loose parts Storage Temperature -55c to +50c (99% RH or less) Operating Temperature -55c to +50c (99% RH or less) PCB Mount Connector Material Specifications Body Insert: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy UNS C17300, TD04 Dielectric Bead: Ultern 1000 Adaptor Material Specifications Finish: Body, Insert & Contact: Stainless Steel per AMS-9640, Alloy UNS S30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Bedies, Inserts & Coupling Nut: Stainless Steel per AMS-9640, Alloy UNS S00000 Bedies Poly		Center: Not greater than 8mΩ							
Vibration resistance		External: Not greater than 4mΩ. No bro	oken, cracked, or loose parts						
Shock resistance MIL-STD-202, Method 213, Condition 1, 100 Gs No broken, cracked, or loose parts Mill-STD-202, Method 213, No electrical discontinuity for not less than 1µs. No broken, cracked, or loose parts Mill-STD-202, Method 106, Less Step 7B Dy Environment Insulation Resistance: Not less than 1,000M2 Dy Environment Insulation Resistance: Not less than 1,000M2 No broken, cracked or loose parts Salt spray MIL-STD-202, Method 101, Condition B Temperature cycle No broken, cracked or loose parts No considerable corrosion Condition B Temperature 1-55c to +50c (95% RH or less) Operating Temperature PCB Mount Connector Material Specifications Body Brass per ASTM B16, Alloy UNS No. C36000 Adaptor Material Specifications Finish: Body, Insert & Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultern 1000 Adaptor Material Specifications Finish: Body, Insert & Contact: Beryllium Copper per ASTM B196, Alloy UNS S303000, Type 1 Contacts: Beryllium Copper per ASTM B196, Alloy UNS S303000, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy UNS S303000, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy UNS S303000, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy UNS S303000 Beads: Polyethermide per ASTM B196, Alloy UNS No. C36000 Beads: Polyethermide per ASTM B2625 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-8-59588, Class 2B, Grade 50/60 Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Mech	nanical						
Moisture resistance of temperature/humidity cycle MIL-STD-202, Method 106, Less Step 7B	Vibration resistance								
temperature/humidity cycle Session	Shock resistance		· · · · · · · · · · · · · · · · · · ·						
Temperature cycle Storage Temperature Operating Temperature -55c to +50c (95% RH or less) PCB Mount Connector Material Specifications Insert: Stainless Steel per AMS-5640, Alloy UNS S03000, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact: Gold per ASTM B 488, Type II, Code C, Class 0.76, over Nickel per AMS-5640, Alloy UNS S00000, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Steeve: Brass per ASTM B196, Alloy UNS S00000, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy UNS S00000, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy UNS C17300, TD04 Steeve: Brass per ASTM B196, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultern 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	temperature/humidity		Not less than $100 \text{M}\Omega$ Dry Environment Insulation Resistance:						
Storage Temperature -55c to +50c (95% RH or less) PCB Mount Connector Material Specifications Insert: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact: Gold per ASTM B 488, Type II, Code C, Class 0.76, over Nickel per AMS-90, N-290, Class 1, 00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Enyllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04 Sleeve: Brass per ASTM B196, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	Salt spray		No considerable corrosion						
Operating Temperature PCB Mount Connector Material Specifications Insert: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact: Gold per ASTM B 488, Type II, Code C, Class 0.76, over Nickel per AMS-QQ-N-290, Class 1,.00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Sleeve: Brass per ASTM B196, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	Temperature cycle		No broken, cracked or loose parts						
PCB Mount Connector Material Specifications Insert: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact: Gold per ASTM B 488, Type II, Code C, Class 0.76, over Nickel per AMS-QQ-N-290, Class 1, .00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-S-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	Storage Temperature		-55c to +50c (95% RH or less)						
Material Specifications Insert: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact Specifications Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy UNS S30300, Type 1 Lock Ring & Sleeve: Brass per ASTM B196, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	Operating Temperature		-55c to +50c (95% RH or less)						
Contact: Stainless Steel per AMS-5640, Alloy UNS \$30300, Type 1 Contact: Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04 Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact Gold per ASTM B 488, Type II, Code C, Class 0.76, over Nickel per AMS-QQ-N-290, Class 1, .00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS \$30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04 Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Body	Brass per ASTM B16, Alloy UNS No. C36000						
Dielectric Bead: Ultem 1000 Adaptor Material Specifications Finish: Body, Insert & Contact Over Nickel per AMS-QQ-N-290, Class 1, .00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04 Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	Material Specifications	Insert:	Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1						
Adaptor Material Specifications Finish: Body, Insert & Contact Specifications Gold per ASTM B 488, Type II, Code C, Class 0.76, over Nickel per AMS-QQ-N-290, Class 1, .00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04 Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Contact:	Beryllium Copper per ASTM B196, Alloy No. UNS C17300, TD04						
Specifications over Nickel per AMS-QQ-N-290, Class 1, .00010" min. Bodies, Inserts & Coupling Nut: Stainless Steel per AMS-5640, Alloy UNS S30300, Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04 Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Dielectric Bead:	Ultem 1000						
Type 1 Lock Ring & Contacts: Beryllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04 Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:	•	Finish: Body, Insert & Contact	over Nickel per AMS-QQ-N-290,						
Sleeve: Brass per ASTM B16, Alloy UNS No. C36000 Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Bodies, Inserts & Coupling Nut:							
Beads: Polyethermide per ASTM D5205 "Ultem 1000" Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Contacts:	Beryllium Copper per ASTM B196, Alloy NO. UNS C17300, TD04						
Bellows Springs: Electro-deposited Gold over Nickel Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Sleeve:	Brass per ASTM B16, Alloy UNS No. C36000						
Gasket: Silicone Rubber per A-A-59588, Class 2B, Grade 50/60 Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Beads:	Polyethermide per ASTM D5205 "Ultem 1000"						
Resistor Element: Aluminium Nitride Substrate with Tantalum Nitride Resistor:		Bellows Springs:	Electro-deposited Gold over Nickel						
		Gasket:	Silicone Rubber per A-A-59588, Class 2B, Grade 50/60						
		Resistor Element:							
Detent: Smooth bore, limited detent, full detent		Detent:	Smooth bore, limited detent, full detent						

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4. Test Setup

Test Condition	Test Exposure and Duration
Low Temperature test	Expose the specimen to -40°C for 400 hours and then to normal temperature/humidity for 24 hours or more. After this test, examine its appearance and functions.
High-temperature test	Expose the specimen to + 105°C for 400 hours and then to normal temperature/humidity for 24 hours or more. After this test, examine its appearance and functions.
High-temperature/ high-humidity test	Subject the object to the environmental conditions of +60°C and 90-95% relative humidity for 96 hours, then expose it to normal temperature/humidity for 24 hours or more. After this test, examine its appearance and functions.
Thermal shock test	Subject the object to cyclic temperature change (-40°C for 2 hours, then +85°C for 2 hours) for 100 cycles, then expose to normal temperature/ humidity for 24 hours or more.
Sinusoidal vibration test	Subject the object to vibrations of 5 to 200 to 5Hz swept in to minutes, 4.5G at maximum (2 mm amplitude), in X and Y directions for two hours each and in Z direction for four hours. After this test, examine its appearance functions.
Vibration test in packaged condition	Subject the object, which is packaged as illustrated, to vibrations of 15 to 60 to 15Hz swept in 6 minutes, 4G at maximum (2mm amplitude at maximum), applied in X, Y and Z directions for two hours each, i.e. six hours in total. After this test, examine its appearance and functions.
Free fall test in packaged condition	Drop the object, which is packaged as illustrated, to a concrete surface from the height of 90cm, on one corner, three edges and six faces once each, i.e. 10 times in total. After this test, examine its appearance and functions.
Soldering heat resistance test	After the lead pins of the unit are soaked in solder bath at 260 \pm 5°C for 10 seconds. After this test, examine its appearance and functions.
Adhesion test	The device is subjected to be soldered on test PCB. Then apply 0.5 Kg (5N) of force for 5±1 second in the direction of parallel to the substrate (the soldering should be done by reftow and be conducted with care so that the soldering is uniform and free of defect by stress such as heat shock).

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R125771001W R127704001 R127.870.001 R127872001 R142710000 R142723000 R143703000 R143704000 R143705700 R143710000