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for EU RoHS Compliant

- \cdot All the products on this catalog are complied with EU RoHS.
- EU RoHS is "the European Directive 2002/95/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment".
- For more details, please refer to our website 'Murata's Approach for EU RoHS' (http://www.murata.com/info/rohs.html).



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Coaxial Connec	ctors (Chip Type Receptacle)
(Part Number)	MM 7329 -27 00 R A1 0 2 3 4 5 5
Product ID	
Product ID	
ММ	Microwave Coaxial Connectors (Chip Type Receptacle)
2 Series	
Code	Series
4829	HSC Type
7329	FSC Туре
8130	SWF Type
8430	SWD Type
9329	GSC Type
3 Individual Speci Code	Individual Specification Code (1)
-26	Switch Connector SMD Type
-27	Connector SMD Type
Individual Speci	fication Code (2)
-27 Individual Speci Code 00	
Individual Speci Code 00	fication Code (2) Individual Specification Code (2)
Individual Speci Code 00 Coaxial Connect	fication Code (2) Individual Specification Code (2) Serial Ctors (with Cable) MX FG 76
Individual Speci Code 00 Coaxial Connect (Part Number)	fication Code (2) Individual Specification Code (2) Serial Ctors (with Cable) MX FG 76
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 Individual Speci Code 00 Coaxial Connect (Part Number) Product ID Product ID MX Connector (1) Code 	fication Code (2) Individual Specification Code (2) Serial Ectors (with Cable) MX FG 76 6 Coaxial Connectors (with Cable) Connector (1)
 Individual Speci Code 00 Coaxial Connect (Part Number) Product ID Product ID MX Connector (1) Code FG 	fication Code (2) Individual Specification Code (2) Serial Ctors (with Cable) MX FG 76 G 76 Coaxial Connectors (with Cable) Connector (1) FSC Type for 76 Cable

3Cable

Code	Cable
32	0.4D, PFA, Single Shield Line, Spiral
76	0.8D, FEP, Single Shield Line
81	0.4D, FEP, Single Shield Line
88	0.4D, PFA, Single Shield Line, Single Line
92	0.4D, PFA, Single Shield Line, Spiral

BPackage Product ID

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Code	Package Product ID
В	Bulk
R	Reel

6Package Detail

Code	Package Detail
A1	FSC, SWD, GSC Type 1000pcs. /Reel (ø178mm)
A4	HSC Type, 4000pcs. /Reel (ø178mm)
B0	HSC Type, 10000pcs. /Reel (ø330mm)
B3	SWD Type, 3000pcs. /Reel (ø330mm)
B4	FSC Type, 4000pcs. /Reel (ø330mm)
B5	GSC Type, 5000pcs. /Reel (ø330mm)
B8	SWF Type, 8000pcs. /Reel (ø330mm)

Connector (2)

Code	Connector (2)
FG	FSC Type for 76 Cable
FK	FSC Type for 81 Cable
HP	HSC Type
тк	GSC Type
XX	None Connector

6Length

Expressed by four figures. The unit is mm. From first to third figures are significant, and the fourth figure expresses the number of zeros which follow the three figures.

Ex.) Code Length 5000 $500mm = 500 \text{ x } 10^{0}$ 1001 1000mm = 100 x 10¹

GIndividual Specification Code

Expressed by two sign.

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Microwave Coaxial Connectors



R Termir Side

> IN OUT

GROUND

(in mm)

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07.9.3

1

Microwave Coaxial Connectors with Switch SWF Type

Features

- 1. The coaxial connector with switch is very useful for characteristic measurement Cellular phone and microwave circuit.
- 2. It is possible to switch the line connection and disconnection easily by special probe.
- 3. Small size, low profile, size 2.5x2.5x1.4mm (LxWxH)
- 4. Excellent characteristics, low IL 0.2dB max. V.S.W.R. 1.3 max. Isolation 15dB min. (DC to 6GHz)
- 5. Surface mountable and reflow solderable
- 6. Tape package available

Applications

Cellular phone, W-LAN, Other wireless and measurement equipment

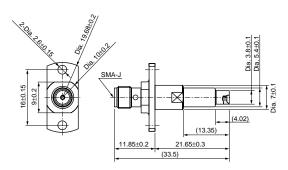
Part Number		Contact Resistance (max.) (ohm)	voitage	Insulation Resistance (M ohm)	Durability (cycles)	Frequency Rating	Temperature Range (degree C)	VSWR	Insertion Loss (On) (dB)	Isolation (Off) (dB)	Inner Electrode (C)	Inner Electrode (R) (material)	Outer Electrode (material)
MM8130-2600	250	0.07	300 (AC)	500	100	to 6GHz	-40 to +85	1.2 max. (DC to 3GHz)	0.1 max. (DC to 3GHz)		Stainless Steel Gold plated		Copper Alloy Gold plated

MM8130-2600

Impedance: 50ohm

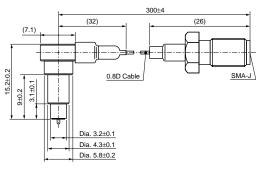
Measurement Probe Dimensions

MM126036



(in mm)



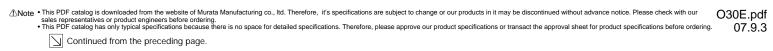


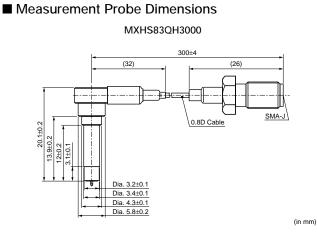
(in mm)

Continued on the following page.

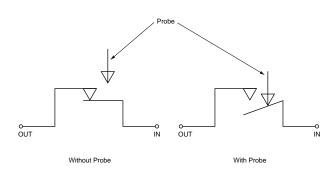








■ Structure

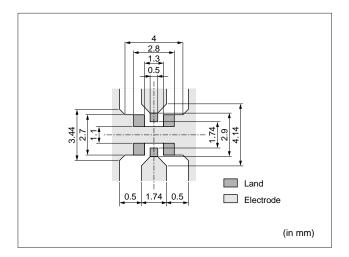


Standard Land Dimensions

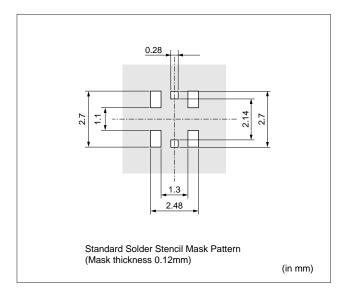
1. Standard Pattern Dimensions

1

- I/O pattern should be designed to match 50 ohm impedance circuit.
- Typical PCB material is glass epoxy (ɛr=4.8). Thickness is 1.0mm.
- The solder resist should be printed except for the land pattern on the PCB.



2. Standard Solder Stencil Mask Pattern Follow standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.





sales representatives of product engineers before ordering.	030E.pdf 07.9.3
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■ Notice (Storage and Operating Condition) 1. Environment Conditions

- (1) This product is designed for use in electrical equipment in the environment (temperature, humidity, atmospheric pressure, etc.) specified in this approval drawing. It may not be used in the following environments or under the following conditions:
 - (a) Ambient air containing corrosive gas (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
 - (b) Ambient air containing volatile or combustible gas
 - (c) In liquid (water, oil, chemical solution, organic solvents, etc.)
 - (d) In environments with a high concentration of airborne particles
 - (e) In direct sunlight
 - (f) Dusty conditions
 - (g) In freezing
 - (h) Other environments similar to the above conditions
- (2) Contact the manufacturer before using the product in any of the above environments or under any of the above conditions.

2. Storage

Store in manufacturer's package or tightly re-closed box with the following conditions. Use this product within 6 months after receipt. Check the terminal solderability before use if the product has been stored for more than 6 months. Temperature: -10 to +40 degree C Humidity: 15 to 85% RH



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- Notice (Soldering and Mounting)
- 1. Reflow soldering

Soldering must be carried out without exceeding the allowable soldering temperature and time shown within the shaded area of Figure "Allowable Temperature and Time of Reflow Soldering".

In case the soldering is repeated, the maximum time in Figure "Allowable Temperature and Time of Reflow Soldering" should be accumulated time. The standard soldering conditions are shown in Figure "Reflow Soldering Standard Conditions".

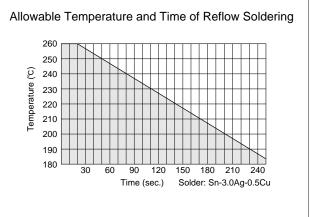
Follow standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.

2. Soldering by soldering iron

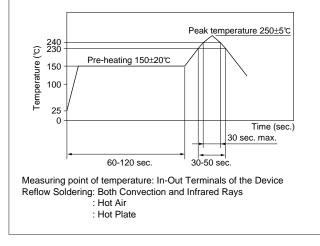
Soldering by soldering iron should be carried out in accordance to the following conditions. Pre-heating Temperature 150°C Time 60 to 120 s.

SolderingTemperature (at the tip of the soldering
iron) less than 350°CTimeless than 3 s.

- 3. We cannot warrant against mishaps caused by any use of this product that deviates from allowable temperature and time of reflow soldering.
- 4. In soldering, do not apply excessive mechanical force to terminals or leads greater than specified in the drawing.
- 5. Please note the following in case of soldering terminals or leads of the product.
- (1) Use Rosin based flux, but not with strong acid flux (Chlorine content should be less than 0.20wt%).
- (2) Flux should be thoroughly cleaned from connector to prevent possible deterioration of electrical characteristics.
- 6. Please mount this product at the position so that stress by wrap and/or bend of the PCB may not apply to it.
- 7. Please avoid the cleaning of this product.







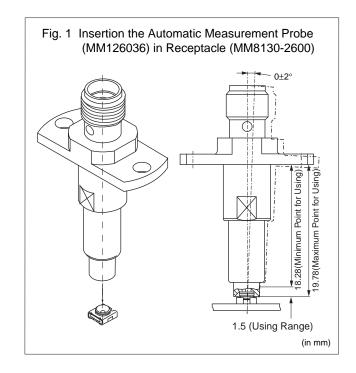
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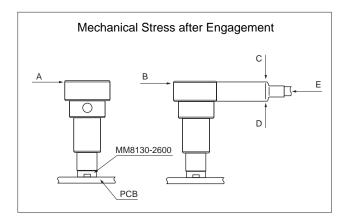
Continued from the preceding page.

- Notice(Handling)
- 1. Automatic Measurement Probe (MM126036)
- Automatic measurement probe (MM126036) should be used on the condition in Fig. 1 for good connection without any damages.
- The engagement strokes from the flange to the tip of probe is 18.28mm to 19.78mm with vertical (0+/-2 degree) direction.



- 2. L Type Probe with Locking Function (MXHS83QE3000, MXHS83QH3000)
- Do not try to pull the cable, when a connector with a coaxial cable is handled.
- Do not give a twisted torque to the cable and connector.
- Mechanical stress: The stress to the connector should be limited as figure shown right.
 - (1) Stress to the housing.
 - Stress A and B: 0.5N max. (2) Stress to the outer sleeve.
 - Stress C: 0.6N max.
 - Stress D: 0.6N max.
 - (3) Cable pull strength. Stress E: 0.5N max.
- 3. Usage Condition
 - (1) Do not apply electrical voltage greater than specified in the catalog. It might cause degradation or destruction of the product. Even if it endures during a short time, long time qualification is not guaranteed.
 - (2) Confirm that product perfomance is not influenced with any other components or materials which directly contact products.
- 4. Handling

Do not apply excessive shock or load to subassembly products such as soldered printed circuit board in case handling or transporting.



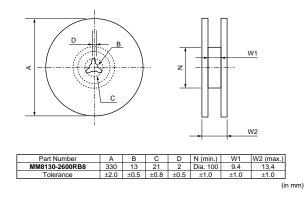


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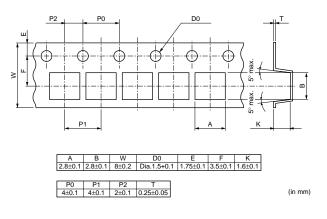
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1 Package

Dimensions of Reel



Dimensions of Taping



■ Minimum Quantity

MM8130-2600RB8: 330 mm dia.reel/8000 pcs. MM8130-2600B: Bulk/free



2

Microwave Coaxial Connectors



ed without advance notice. Please check with our

Microwave Coaxial Connectors with Switch SWD Type

Features

- 1. The coaxial connector with switch is very useful for characteristic measurement of hand held phone and microwave circuit.
- 2. It is possible to switch the line connection and disconnection easily by special probe.
- 3. Small size, low profile, size 3x3x1.75mm (LxWxH)
- 4. Excellent characteristics, low IL 0.2dB max. V.S.W.R. 1.3 max. Isolation 15dB min. (DC to 6GHz)
- 5. Surface mountable and reflow solderable
- 6. Tape package available

Applications

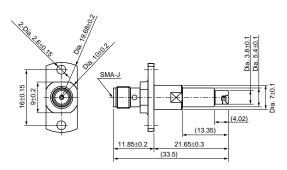
Cellular phone, W-LAN, Other wireless and measurement equipment

Part Number		Contact Resistance (max.) (ohm)	Withstand Voltage (Vrms)	Insulation Resistance (M ohm)	Durability (cycles)	Frequency Rating	Temperature Range (degree C)	VSWR	Insertion Loss (On) (dB)	Isolation (Off) (dB)	Inner Electrode (C)	Inner Electrode (R) (material)	Outer Electrode (material)
MM8430-2610	250	0.05	300 (AC)	500	500	to 6GHz	-40 to +85	1.2 max. (DC to 3GHz)	0.1 max. (DC to 3GHz)	20 min. (DC to 3GHz)	Stainless Steel Gold plated	Copper Alloy Gold plated	

Impedance: 50ohm

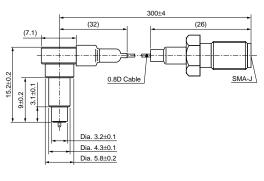
Measurement Probe Dimensions

MM126036



(in mm)



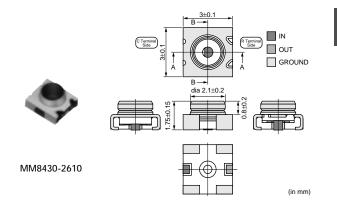


(in mm)

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(32)

3.4±0.1

4.3±0.1

MXHS83QH3000

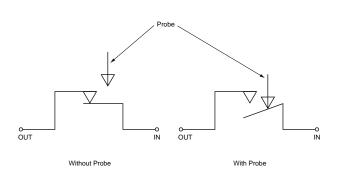
(26)

0.8D Cabl

SMA-J

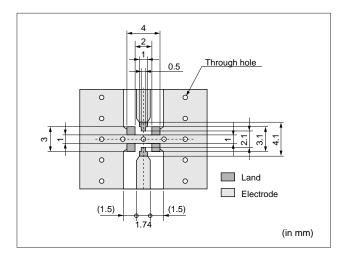
(in mm)

■ Structure

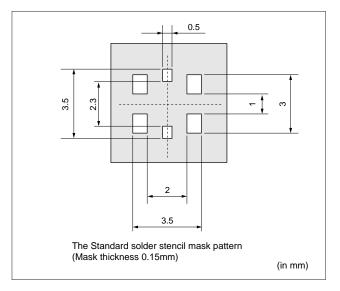


Standard Land Dimensions

- 1. Standard pattern dimensions
- I/O pattern should be designed to match 50 ohm impedance circuit.
- Typical PCB material is glass epoxy (ɛr=4.8). Thickness is 1.0mm.
- The solder resist should be printed except for the land pattern on the PCB.



2. Standard solder stencil mask pattern Follow Standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.



2



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- Notice (Storage and Operating Condition)
 1. Environment Conditions
- (1) This product is designed for use in electrical equipment in the environment (temperature, humidity, atmospheric pressure, etc.) specified in this approval drawing. It may not be used in the following environments or under the following conditions:
 - (a) Ambient air containing corrosive gas
 (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
 - (b) Ambient air containing volatile or combustible gas
 - (c) In liquid (water, oil, chemical solution, organic solvents, etc.)
 - (d) In environments with a high concentration of airborne particles
 - (e) In direct sunlight
 - (f) Dusty conditions
 - (g) In freezing
 - (h) Other environments similar to the above conditions
- (2) Contact the manufacturer before using the product in any of the above environments or under any of the above conditions.

2. Storage

Store in manufacturer's package or tightly re-closed box with the following conditions. Use this product within 6 months after receipt. Check the terminal solderability before use if the product has been stored for more than 6 months. Temperature: -10 to +40 degree C Humidity: 15 to 85% RH





2

- Notice (Soldering and Mounting)
- 1. Reflow soldering
 - Soldering must be carried out without exceeding the allowable soldering temperature and time shown within the shaded area of Figure "Allowable Temperature and Time of Reflow Soldering".

In case the soldering is repeated, the maximum time in Figure "Allowable Temperature and Time of Reflow Soldering" should be accumulated time. The standard soldering conditions are shown in Figure "Reflow Soldering Standard Conditions".

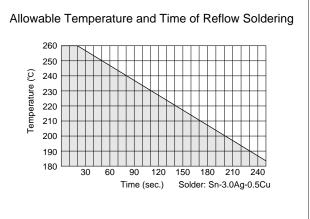
Follow standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.

2. Soldering by soldering iron

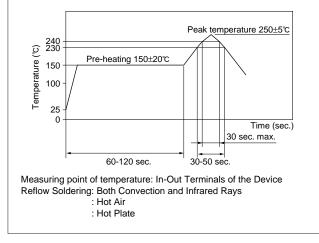
Soldering by soldering iron should be carried out in accordance to the following conditions. Pre-heating Temperature 150°C Time 60 to 120 s. Soldering iron) less than 350°C

Time less than 3 s.

- 3. We cannot warrant against mishaps caused by any use of this product that deviates from allowable temperature and time of reflow soldering.
- 4. In soldering, do not apply excessive mechanical force to terminals or leads greater than specified in the drawing.
- 5. Please note the following in case of soldering terminals or leads of the product.
- (1) Use Rosin based flux, but not with strong acid flux (Chlorine content should be less than 0.20wt%).
- (2) Flux should be thoroughly cleaned from connector to prevent possible deterioration of electrical characteristics.
- 6. Please mount this product at the position so that stress by wrap and/or bend of the PCB may not apply to it.
- 7. Please avoid the cleaning of this product.







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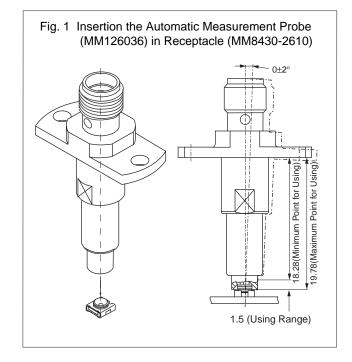


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2

Continued from the preceding page.

- Notice (Handling)
- 1. Automatic Measurement Probe (MM126036)
- Automatic measurement probe (MM126036) should be used under conditions in Fig. 1 for good connection without any damages.
- The engagement strokes from the flange to the tip of probe is 18.28mm to 19.78mm with vertical (0±2°) direction.



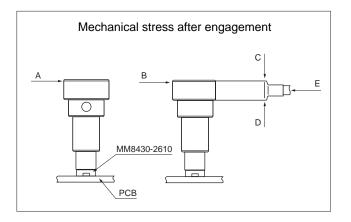
- 2. L Type Probe with Locking Function
- (MXHS83QE3000, MXHS83QH3000)
- Avoid pulling cable when probe is locked into connector.
- Avoid twisting probe or cable when engaging or disengaging from connector.
- Mechanical stress:
 - The stress to the connector should be limited as figure shown right.
 - (1) Stress to the housing. Stress A and B: 0.5N max.
 - (2) Stress to the outer sleeve. Stress C: 0.6N max.
 - Stress D: 0.6N max.
 - (3) Cable pull strength.
 - Stress E: 0.5N max.

3. Usage Condition

- (1) Do not apply electrical voltage greater than specified in the catalog. It might cause degradation or destruction of the product. Even if it endures during a short time, long time qualification is not guaranteed.
- (2) Confirm that product performance is not influenced with any other components or materials which directly contact products.
- 4. Handling

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Avoid excessive stress when handling and transporting printed circuit board after connector and/or assembly has been secured to PCB.



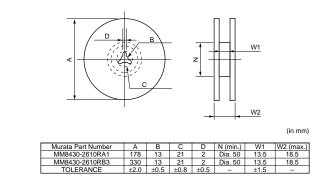


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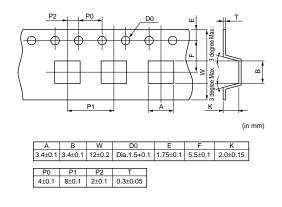
Package

2

Dimensions of Reel



Dimensions of Taping



■ Minimum Quantity

MM8430-2610RA1: dia.180 mm reel/1000 pcs. MM8430-2610RB3: dia.330 mm reel/3000 pcs. MM8430-2610B: Bulk/free



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Microwave Coaxial Connectors



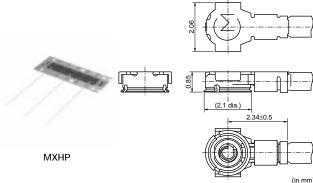
Ultra Miniature SMT HSC Type

Features

- 1. The mating height is only 1.2mm maximum by new mechanical design. Suitable for low profile design.
- 2. New mating mechanical desigh makes stable feeling connection.
- 3. Soft and ultra thin 0.81mm diameter flexible coaxial cables is available.
- 4. High performance with wide frequency range(DC to 6GHz). VSWR at 3GHz to 6GHz is 1.45 maximum.

Applications

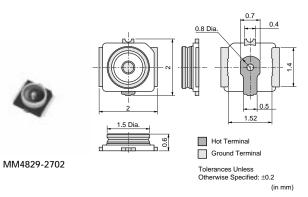
Portable telephone, cordless telephone(analog and digital), GPS, and other microwave radio and measurement equipment.





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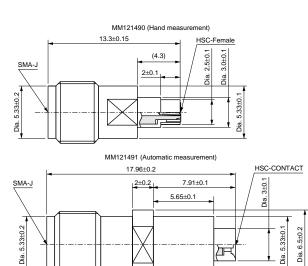
07.9.3



Part Number	Rated Voltage (V)	Contact Resistance (max.) (ohm)	Withstanding Voltage (rms)	Insulation Resistance (min.) (M ohm)	Durability (cycles)	Frequency Rating (GHz)	Temperature Range (degree C)	VSWR	Center Contact	Outer Contact	Insulator
MM4829-2702	250	0.020	300 (AC)	500	30	to 6.0	-40 to +85	1.3 max. (DC to 3GHz)	Copper Alloy Gold plated	Copper Alloy Silver plated	Engineering plastic

Impedance: 50ohm

Measurement Adapter Dimensions (for Receptacle)



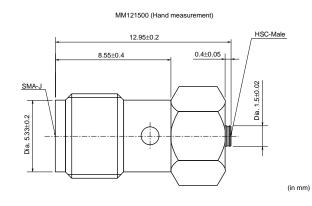
muRata

(in mm)



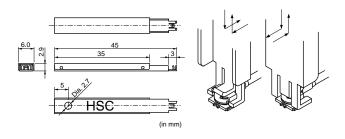
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■ Measurement Adapter Dimensions (for Cable Assembly) ■ Cable Length Tolerance



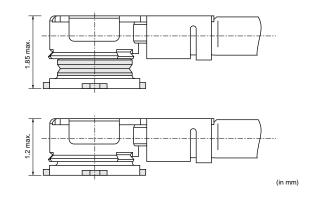
3

■ Disengagement Tool (Part Number: M19100)



·Ð·-[l------그 _____ Cable Length L (mm) Dimensional Tolerance (mm) Over Less than 20 100 ±3 100 500 ±4 1000 ±10 500 +2% of L -0% of L _ 1000

Profile Dimensions



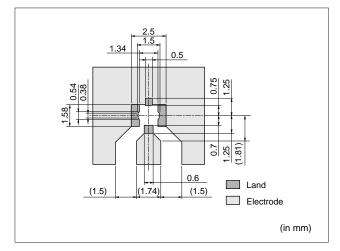
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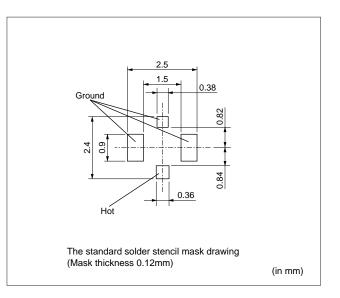
Continued from the preceding page.

- Land Pattern Dimensions
- 1. Standard pattern dimensions
- I/O pattern should be designed to match 50 ohm impedance circuit.
- Typical PCB material is glass epoxy (εr=4.8). Thickness is 1.0mm.
- The solder resist should be printed except for the land pattern on the PCB.





2. Standard solder stencil mask pattern Follow Standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.





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- Notice (Storage and Operation Condition)
 1. Environment Conditions
- (1) This product is designed for use in electrical equipment in the environment (temperature, humidity, atmospheric pressure, etc.) specified in this approval drawing. It may not be used in the following environments or under the following conditions:
 - (a) Ambient air containing corrosive gas
 (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
 - (b) Ambient air containing volatile or combustible gas
 - (c) In liquid (water, oil, chemical solution, organic solvents, etc.)
 - (d) In environments with a high concentration of airborne particles
 - (e) In direct sunlight
 - (f) Dusty conditions
 - (g) In freezing
 - (h) Other environments similar to the above conditions
- (2) Contact the manufacturer before using the product in any of the above environments or under any of the above conditions.

2. Storage

Store in manufacturer's package or tightly re-closed box with the following conditions. Use this product within 6 months after receipt. Check the terminal solderability before use if the product has been stored for more than 6 months. Temperature: -10 to +40 degree C Humidity: 15 to 85% RH



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- Notice (Soldering and Mounting)
- 1. Reflow soldering

Soldering must be carried out without exceeding the allowable soldering temperature and time shown within the shaded area of Figure "Allowable Temperature and Time of Reflow Soldering".

In case the soldering is repeated, the maximum time in Figure "Allowable Temperature and Time of Reflow Soldering" should be accumulated time. The standard soldering conditions are shown in Figure "Reflow Soldering Standard Conditions".

Use the Pattern and Metal mask pattern is illustrated in details.

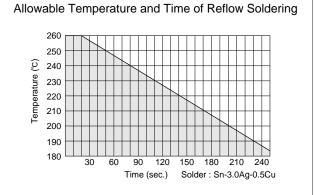
Follow standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.

2. Soldering by soldering iron

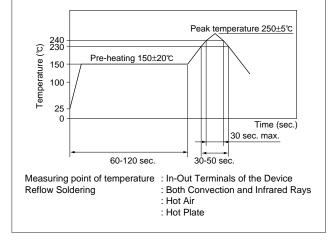
Soldering by soldering iron should be carried out in accordance to the following conditions.

Pre-heating	Temperature	150℃				
	Time	60 to 120 s.				
Soldering	Temperature (at the tip of the soldering					
	iron) less than 3	50℃				
	Time	less than 3 s.				

- 3. We cannot warrant against mishaps caused by any use of this product that deviates from allowable temperature and time of reflow soldering.
- 4. In soldering, do not apply excessive mechanical force to terminals or leads greater than specified in the drawing.
- 5. Please note the following in case of soldering terminals or leads of the product.
 - Use Rosin based flux, but not with strong acid flux (Chlorine content should be less than 0.20wt%).
 - (2) Flux should be thoroughly cleaned from connector to prevent possible deterioration of electrical characteristics.
- 6. Please mount this product at the position so that stress by wrap and/or bend of the PCB may not apply to it.
- 7. Please dry out this product immediately after soldering and cleaning.



Reflow Soldering Standard Conditions



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Notice

- Continued from the preceding page.
- Notice (Handling)
- 1. Usage Condition
- (1) Do not apply electrical voltage greater than specified in the drawing. It might cause degradation or destruction of the product. Even if it endures during a short time, long time qualification is not guaranteed.
- (2) Confirm product's performance is not influenced by contact of other components.
- (3) Please contact the manufacturer beforehand, if the product is to be used in frequently bent position.
- 3

2. Handling

- Avoid excessive stress when handling and transporting printed circuit board after connector and/or assembly has been secured to PCB.
- (2) Do not try to pull the cable, when a connector with a coaxial cable is handled.
- (3) Disregarding the following notes could cause mechanical damage and/or poor electrical performance.
- 3. Handling Instructions
- Cable is designed to fit only with MM4829-2702 receptacle. Any other receptacle cannot be used with this cable.
- (2) Disengagement:
- Use tool P/N M19100 to insert or remove cable in a vertical direction from receptacle. Avoid pulling only the cable to prevent cable damage.
- (3) Avoid twisting probe or cable when engaging or disengaging from connector.
- (4) Mechanical stress:

The stress to the connector should be limited as shown in Figure 1.

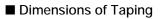
- (a) Stress to the housing.
- Stress A and B: 5.0N max. (b) Stress to the outer sleeve.
 - Stress C: 1.0N max.
 - Stress D: 1.0N max.
- (c) Cable pull strength.
 - Stress E: 5.0N max.

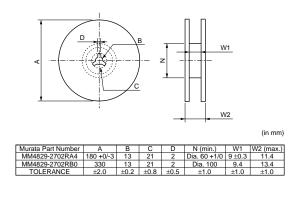


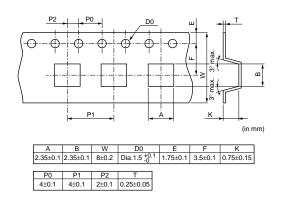
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Package

Dimensions of Reel







3

■ Minimum Quantity

MM4829-2702RA4: 180 mm dia. reel/4000 pcs. MM4829-2702RB0: 330 mm dia. reel/10000 pcs. MM4829-2702B: Bulk/free

Microwave Coaxial Connectors



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07.9.3

Miniature SMT GSC Type

Features

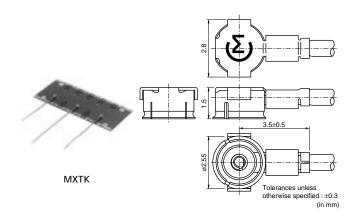
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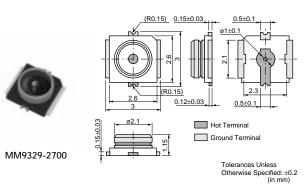
4

- 1. The mating height is only 2mm maximum by new mechanical design. Suitable for low profile design.
- 2. New mating mechanical desigh makes stable feeling connection.
- 3. Soft and ultra thin 0.8mm diameter flexible coaxial cables is available.
- 4. High performance with wide frequency range(DC to 6GHz). VSWR at DC to 3GHz is 1.2 maximum. VSWR at 3GHz to 6GHz is 1.3 maximum.

Applications

Portable telephone, cordless telephone(analog and digital), GPS, and other microwave radio and measurement equipment.



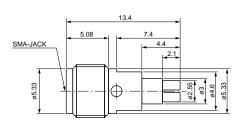


Part Number	Rated Voltage (V)	Contact Resistance (max.) (ohm)	Withstanding Voltage (rms)	Insulation Resistance (min.) (M ohm)		Frequency Rating (GHz)	Temperature Range (degree C)	VSWR	Center Contact	Outer Contact	Insulator
MM9329-2700	250	0.015	300 (AC)	500	100	to 6.0	-40 to +90	1.2 max. (DC to 3GHz)	Copper Alloy Gold plated	Copper Alloy Silver plated	Engineering plastic

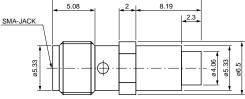
muRata

Impedance: 50ohm

Measurement Adapter Dimensions (for Receptacle) MM121470 (Hand measurement)







(in mm)

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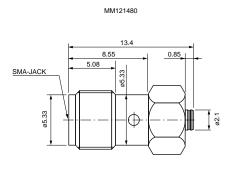


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(in mm)

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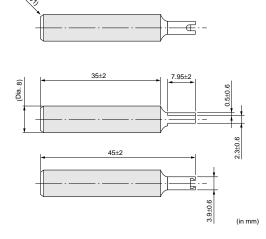
■ Measurement Adapter Dimensions (for Cable Assembly) ■ Cable Length Tolerance



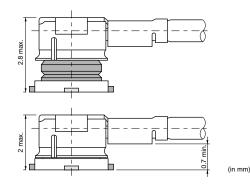
	L		
Over	Till	Dimensional tolerance (mm)	
40	100	±3	
100	500	±4	
500	1000	±10	
1000	-	+2% of L -0% of L	

*L must be 20mm Min.

■ Disengagement Tool (Part Number: M22001)



Profile Dimensions



4

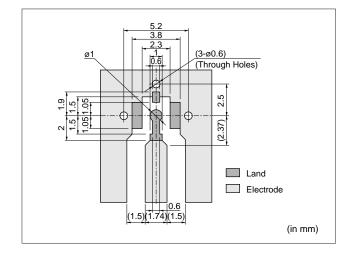
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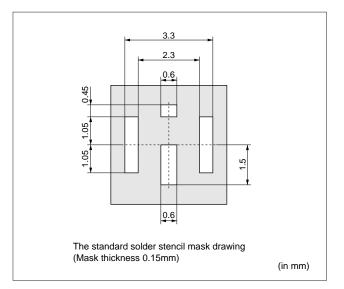
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	07.3.5

Continued from the preceding page.

- Land Pattern Dimensions
- 1. Standard pattern dimensions
- I/O pattern should be designed to match 50 ohm impedance circuit.
- Typical PCB material is glass epoxy (ɛr=4.8). Thickness is 1.0mm
- The solder resist should be printed except for the land pattern on the PCB.



2. Standard solder stencil mask pattern Follow Standard solder stencil mask pattern to avoid the possibility of solder being trapped under connector.





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- Notice (Storage and Operation Condition)
 1. Environment Conditions
- (1) This product is designed for use in electrical equipment in the environment (temperature, humidity, atmospheric pressure, etc.) specified in this approval drawing. It may not be used in the following environments or under the following conditions:
 - (a) Ambient air containing corrosive gas
 (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
 - (b) Ambient air containing volatile or combustible gas
 - (c) In liquid (water, oil, chemical solution, organic solvents, etc.)
 - (d) In environments with a high concentration of airborne particles
 - (e) In direct sunlight
 - (f) Dusty conditions
 - (g) In freezing
 - (h) Other environments similar to the above conditions
- (2) Contact the manufacturer before using the product in any of the above environments or under any of the above conditions.

2. Storage

Store in manufacturer's package or tightly re-closed box with the following conditions. Use this product within 6 months after receipt. Check the terminal solderability before use if the product has been stored for more than 6 months. Temperature: -10 to +40 degree C Humidity: 15 to 85% RH

4

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- Notice (Soldering and Mounting)
- 1. Reflow soldering

Soldering must be carried out without exceeding the allowable soldering temperature and time shown within the shaded area of Figure "Allowable Temperature and Time of Reflow Soldering".

In case the soldering is repeated, the maximum time in Figure "Allowable Temperature and Time of Reflow Soldering" should be accumulated time. The standard soldering conditions are shown in Figure "Reflow Soldering Standard Conditions".

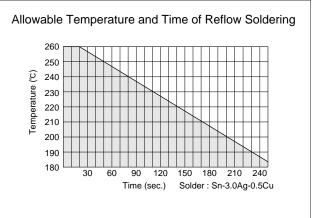
Follow recommended solder stencil mask pattern to avoid the possibility of solder being trapped under connector.

2. Soldering by soldering iron

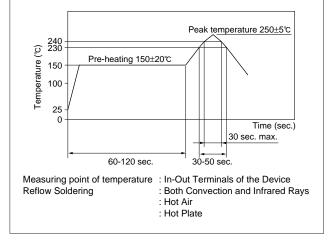
4

Soldering by soldering iron should be carried out in					
accordance to	the following cor	nditions.			
Pre-heating	Temperature	150℃			
	Time	60 to 120 s.			
Soldering	Temperature (a	t the tip of the soldering			
	iron) less than 350℃				
	Time	less than 3 s.			

- We cannot warrant against mishaps caused by any use of this product that deviates from allowable temperature and time of reflow soldering.
- 4. In soldering, do not apply excessive mechanical force to terminals or leads greater than specified in the drawing.
- 5. Please note the following in case of soldering terminals or leads of the product.
 - Use Rosin based flux, but not with strong acid flux (Chlorine content should be less than 0.20wt%).
 - (2) Flux should be thoroughly cleaned from connector to prevent possible deterioration of electrical characteristics.
- 6. Please mount this product at the position so that stress by wrap and/or bend of the PCB may not apply to it.
- 7. Please dry out this product immediately after soldering and cleaning.



Reflow Soldering Standard Conditions



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- Notice (Handling)
- 1. Usage Condition
- (1) Do not apply electrical voltage greater than specified in the drawing. It might cause degradation or destruction of the product. Even if it endures during a short time, long time qualification is not guaranteed.
- (2) Confirm product's performance is not influenced by contact of other components.
- (3) Please contact the manufacturer beforehand, if the product is to be used in frequently bent position.

2. Handling

- Avoid excessive stress when handling and transporting printed circuit board after connector and/or assembly has been secured to PCB.
- (2) Do not try to pull the cable, when a connector with a coaxial cable is handled.
- (3) Disregarding the following notes could cause mechanical damage and/or poor electrical performance.
- 3. Handling Instructions
- Cable is designed to fit only with MM9329-2700 receptacle. Any other receptacle cannot be used with this cable.
- (2) Disengagement:
- Use tool P/N M22001 to insert or remove cable in a vertical direction from receptacle. Avoid pulling only the cable to prevent cable damage.
- (3) Avoid twisting probe or cable when engaging or disengaging from connector.
- (4) Mechanical stress:

The stress to the connector should be limited as shown in Figure 1.

- (a) Stress to the housing.
- Stress A and B: 5.0N max. (b) Stress to the outer sleeve.
 - Stress C: 3.0N max.
 - Stress D: 2.0N max.
- (c) Cable pull strength. Stress E: 5.0N max.

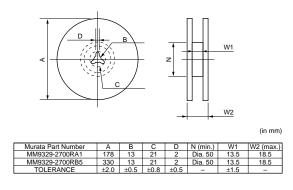
Figure 1. Mechanical Stress after Engagement



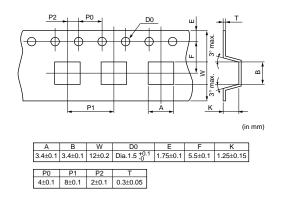
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Package

Dimensions of Reel



Dimensions of Taping



4

■ Minimum Quantity

MM9329-2700RA1: dia.180 mm reel/1000 pcs. MM9329-2700RB5: dia.330 mm reel/5000 pcs. MM9329-2700B: Bulk/free



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Microwave Coaxial Connectors



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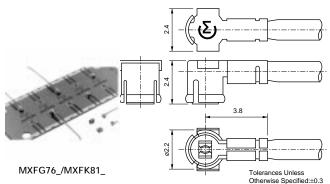
SMT FSC Type

Features

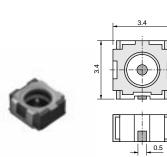
- 1. High engagement
- 2. Miniature (LxWxH: 3.4x3.4x1.5mm) for High density mounting
- 3. Low profile (3.0mm max.)
- 4. SMD and reflow soldering applicable
- 5. Taping package applicable
- 6. Mountable by automatic placer
- 7. High performance (V.S.W.R. 1.3 max. at 3GHz)
- 8. Matched with ultra-thin FEP coaxial cables (0.8mm dia)

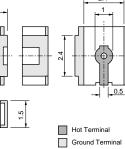
Applications

Portable telephone, mobile telephone, cordless telephone, GPS, and other microwave radio and measurement equipment.







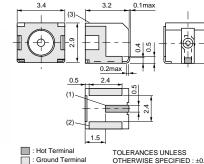


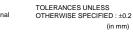


MM7329-2700

MM7329-2702

Tolerances Unless Otherwise Specified:±0.2 (in mm)





Part Number	Rated Voltage (V)	Contact Resistance (max.) (ohm)	Withstanding Voltage (rms)	Insulation Resistance (min.) (M ohm)	Durability (cycles)	Frequency Rating (GHz)	Temperature Range (degree C)	VSWR	Center Contact	Outer Contact	Insulator
MM7329-2700	250	0.015	300 (AC)	500	50	to 3.0	-40 to +90	1.3 max.	Copper Alloy Gold plated	Copper Alloy Gold plated	Engineering plastic
MM7329-2702	250	0.015	300 (AC)	500	50	to 3.0	-40 to +90	1.3 max.	Copper Alloy Gold plated	Copper Alloy Gold plated	Engineering plastic

Impedance: 50ohm



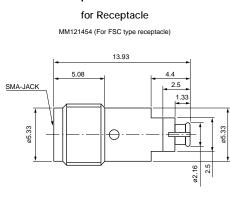




Measurement Adapter Dimensions

■ Land Pattern Dimensions

ø1



MM7329-2700B

(1.5) (1.74) (1.5)

(Note) - Pattern should be designed to match 50 ohm impedance circuit.
 Typical PCB material is glass epoxy (εr=4.8). Thickness is 1.0mm.
 The solder resist should be printed except for the land pattern on the PCB

3-ø0.6 (Through hole)

2.5

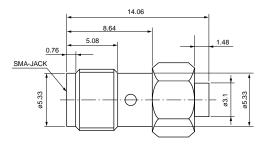
Land Electro

(in mm)

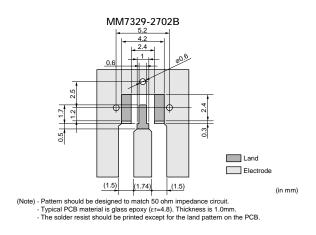
2.57

(in mm)

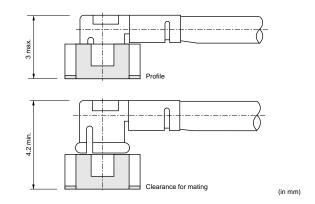
for Cable Assembly MM121460 (For FSC type cable assembly)



(in mm)



■ Profile Dimensions



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5

Cable Le	Dimensional		
Over	Till	tolerance(mm)	
40	100	± 3	
100	500	± 4	
500	1000	±10	
1000		+2% of L	
	-	-0% of L	

*L must be 40mm Min.

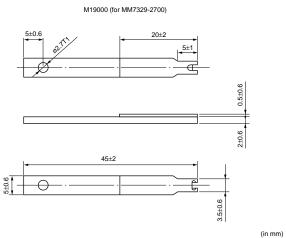
Cable Length Tolerance

muRata

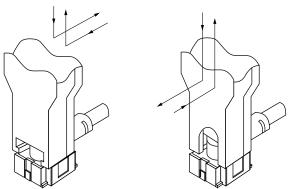


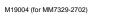
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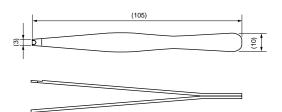
■ Disengagement Tool

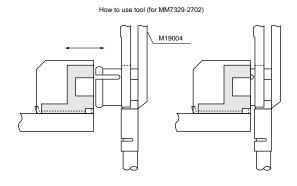


How to use tool (for MM7329-2700)









(in mm)



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- Notice (Storage and Operating Condition)
 1. Environment Conditions
- (1) This product is designed for use in electrical equipment in the environment (temperature, humidity, atmospheric pressure, etc.) specified in this approval drawing. It may not be used in the following environments or under the following conditions:
 - (a) Ambient air containing corrosive gas
 (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
 - (b) Ambient air containing volatile or combustible gas
 - (c) In liquid (water, oil, chemical solution, organic solvents, etc.)
 - (d) In environments with a high concentration of airborne particles
 - (e) In direct sunlight
 - (f) Dusty conditions
 - (g) In freezing
 - (h) Other environments similar to the above conditions
- 5
- (2) Contact the manufacturer before using the product in any of the above environments or under any of the above conditions.

2. Storage

Store in manufacturer's package or tightly re-closed box with the following conditions. Use this product within 6 months after receipt. Check the terminal solderability before use if the product has been stored for more than 6 months. Temperature: -10 to +40 degree C Humidity: 15 to 85% RH



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- Notice (Soldering and Mounting)
- 1. Reflow soldering

Soldering must be carried out without exceeding the allowable soldering temperature and time shown within the shaded area of Figure "Allowable Temperature and Time of Reflow Soldering".

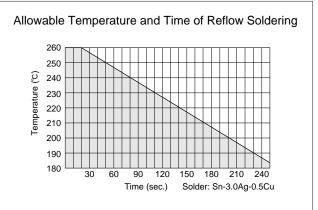
In case the soldering is repeated, the maximum time in Figure "Allowable Temperature and Time of Reflow Soldering" should be accumulated time. The standard soldering conditions are shown in Figure "Reflow Soldering Standard Conditions". Follow Standard pattern dimensions.

2. Soldering by soldering iron

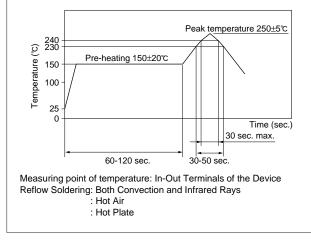
Soldering by soldering iron should be carried out in accordance to the following conditions. Pre-heating Temperature 150° C Time 60 to 120 s

	Time	60 to 120 S.		
Soldering	Temperature (at the tip of the soldering			
	an 350℃			
	Time	less than 3 s.		

- 3. We cannot warrant against mishaps caused by any use of this product that deviates from allowable temperature and time of reflow soldering.
- 4. In soldering, do not apply excessive mechanical force to terminals or leads greater than specified in the drawing.
- 5. Please note the following in case of soldering terminals or leads of the product.
- Use Rosin based flux, but not with strong acid flux (Chlorine content should be less than 0.20wt%).
- (2) Flux should be thoroughly cleaned from connector to prevent possible deterioration of electrical characteristics.
- 6. Please mount this product at the position so that stress by wrap and/or bend of the PCB may not apply to it.
- 7. Please dry out this product immediately after soldering and cleaning.







5

Continued on the following page.



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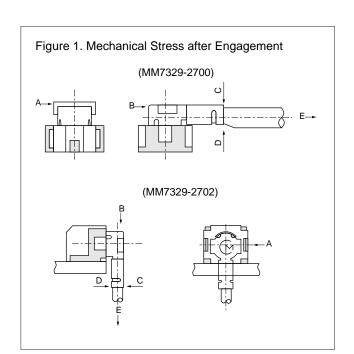
Notice

- Continued from the preceding page.
- Notice (Handling)
- 1. Usage Condition
- (1) Do not apply electrical voltage greater than specified in the drawing. It might cause degradation or destruction of the product. Even if it endures during a short time, long time qualification is not guaranteed.
- (2) Confirm product's performance is not influenced by contact of other components.
- (3) Please contact the manufacturer beforehand, if the product is to be used in frequently bent position.
- 2. Handling
- Avoid excessive stress when handling and transporting printed circuit board after connector and/or assembly has been secured to PCB.
- (2) Do not try to pull the cable, when a connector with a coaxial cable is handled.
- (3) Disregarding the following notes could cause mechanical damage and/or poor electrical performance.
- 3. Handling Instructions
- Cable is designed to fit only with MM7329-2700 and MM7329-2702 receptacles. Any other receptacle can
- not be used with this cable.
- (2) Disengagement:

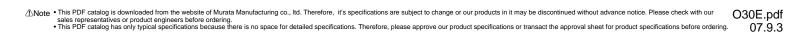
5

Use tool P/N M19000 (for MM7329-2700) or M19004 (for MM7329-2702) to insert or remove cable in a vertical direction from receptacle. Avoid pulling only the cable to prevent cable damage.

- (3) Avoid twisting probe or cable when inserting or removing from receptacle.
- (4) Mechanical stress:
 - The stress to the connector should be limited as shown in Figure 1.
 - (a) Stress to the housing.
 - Stress A and B: 4.9N max. (b) Stress to the outer sleeve.
 - Stress C: 2.94N max.
 - Stress D: 1.96N max.
 - (c) Cable pull strength.
 - Stress E: 7.84N max. (for MM7329-2700) 4.9N max. (for MM7329-2702)

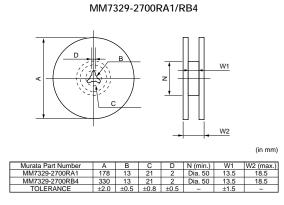


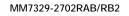


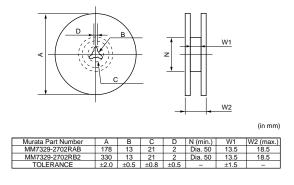


Package

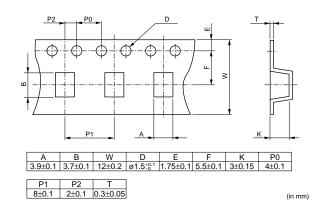
Dimensions of Reel







■ Dimensions of Taping



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35

■ Minimum Quantity

MM7329-2700RA1: dia.180 mm reel/1000 pcs. MM7329-2700RB4: dia.330 mm reel/4000 pcs. MM7329-2700B: Bulk/free MM7329-2702RAB: dia.180 mm reel/ 500 pcs. MM7329-2702RB2: dia.330 mm reel/2000 pcs. MM7329-2702B: Bulk/free



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Miniaturized Microwave Coaxial Connector Cable List

			0.8D single shield FEP cable	0.4D single shield FEP cable	0.4D single shield PFA cable	0.4D single shield PFA cable	0.4D single shield PFA cable
М	urata cable cod	le	76	81	88	92	32
Inner conductor	Material	-	Silver coated copper covered steel wire	Silver coated copper wire	Silver coated copper covered steel wire	Silver coated copper wire	Silver coated copper wire
	No. and Dia.	(No./mm)	1/0.26	7/0.05	1/0.15	7/0.05	7/0.05
	Total Dia.	(mm)	0.26	0.15	0.15	0.15	0.15
Insulator	Material	-	FEP	FEP	PFA	PFA	PFA
	Melting point (Reference only)	Degree C	285	250	302-310	302-310	302-310
	Total Dia.	(mm)	0.8	0.4	0.43	0.4	0.4
	Material	-	Tin plated copper wire	Tin plated copper wire	Tin plated copper wire	Tin plated copper wire	Silver plated copper wire
Outer conductor	Dia. of wire	(mm)	0.05	0.05	0.05	0.05	0.05
conductor	Total Dia.	(mm)	1.05	0.65	0.68	0.65	0.65
Sheath	Material	-	FEP	FEP	PFA	PFA	PFA
	Nominal thickness	(mm)	0.1	0.05	0.075	0.075	0.075
	Color	-	Gray	White	White	White	White
Ove	rall Dia.	(mm)	1.24	0.8	0.83	0.8	0.8
Minimum b	ending radius	(mm)	6	4.8	3.3	3.3	3.3
Nominal	impedance	(Ohm)	50	50	50	50	50
Continuous operating voltage		300 Vrms max.	300 Vrms max.	300 Vrms max.	300 Vrms max.	300 Vrms max.	
Nominal sta	tic capacitance	(pF/m)	100	100	100	100	100
Nominal Insertion Ioss	dB/m at ?	1GHz	1.56	3.0	2.89	3.0	3.0
	dB/m at 2	2GHz	2.3	4.26	4.28	4.26	4.26
	dB/m at 3	3GHz	2.9	5.24	5.39	5.24	5.24
	dB/m at 4	4GHz	3.5	6.18	6.44	6.18	6.18
	dB/m at e	6GHz			8.4	9.17	9.17
Assembly to FSC		Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	
Assembly to GSC		Not Suitable	Not Suitable	Suitable	Suitable	Not Suitable	
A	ssembly to HS	2	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable



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- ② Aerospace equipment
 ④ Power plant equipment $\overline{\textcircled{3}}$ Undersea equipment
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 (8) Disaster prevention / crime prevention equipment
 (10) Application of similar complexity and/or reliability requirements to the applications listed above 5 Medical equipment
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