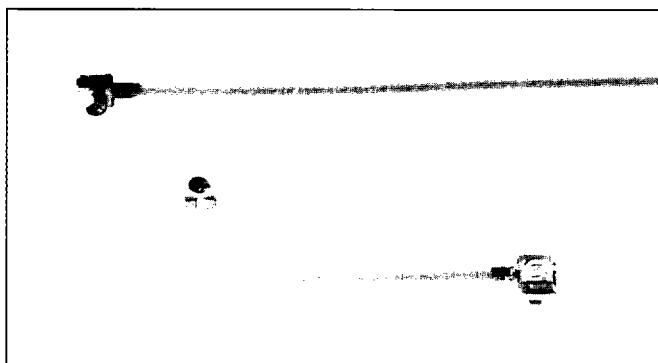




FEATURES

- Ultra-miniature for High density mounting (11.6mm²).
- Ultra-low profile (3.2mm Max.).
- SMD and reflow solderable.
- Tape and reel packaging.
- High performance. (VSWR: 1.2 Max. at 3GHz)
- Available with ultra-thin FEP coaxial cables (1.25mm dia.).

APPLICATIONS

Portable, mobile and cordless telephone, GPS, any other microwave radio and measurement equipment, high-end workstations.

PART NUMBERING – RECEPTACLE

PART NUMBER	PACKAGING	QUANTITY
MM6329-2700	Bulk package	Specify
MM6329-2700TB1	178mm Dia. Taping	1000pcs/reel
MM6329-2700TB2	330mm Dia. Taping	4000pcs/reel

PART NUMBERING – CABLE ASSEMBLY

MX	RG	76	XX	200	0
①	②	③	④	⑤	⑥

- ① Cable assembly
②④ Connector code for each end of cable

Code	Connector
RG	ESC type Plug connector
XX	No connector

- ③ Cable code

Code	Cable	Outer Diameter	Outer conductor construction	Minimum Bending radius
76	0.8D	1.25mm	Single shield	6mm
79	0.8D	1.25mm	Single shield	6mm

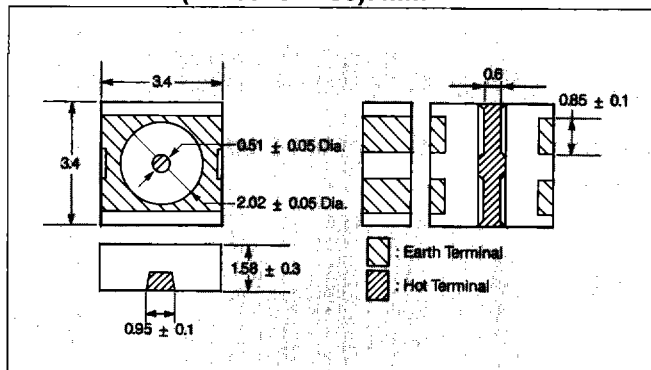
- ⑤⑥ Full length of cable assembly
Length L(mm) = ⑤ × 10^⑥
Ex. 500mm = 500 × 10⁰ = 5000
1000mm = 100 × 10¹ = 1001
⑤⑥

Complete cable specifications are on Pages 54 & 55.

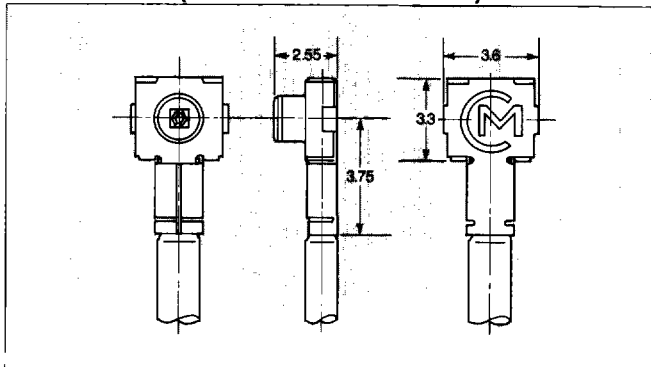
SPECIFICATIONS

Item	Rating and Characteristics
Frequency	From DC to 3GHz
VSWR	1.2 Max.
Nominal Impedance	50Ω
Temperature Range	-40°C to +90°C
Voltage	250Vrms
Contact Resistance	15mΩ Max.
Withstand Voltage	300VAC rms
Insulation Resistance	500MΩ Min.
Mating Cycles	50cycles

DIMENSIONS (MM6329-2700): mm



DIMENSIONS (MXRG□□□□□□□□): mm



COAXIAL CONNECTOR SMT, MICROMINIATURE

ESC Series

MATERIALS AND FINISH MM6329-2700 – RECEPTACLE

Part Name	Materials	Finish
Center Contact	Stainless Steel	Gold plated
Outer Contact	Brass	Gold plated
Insulator	Liquid Crystalline Polymer	None

MXRG□□□□□□ – CONNECTOR

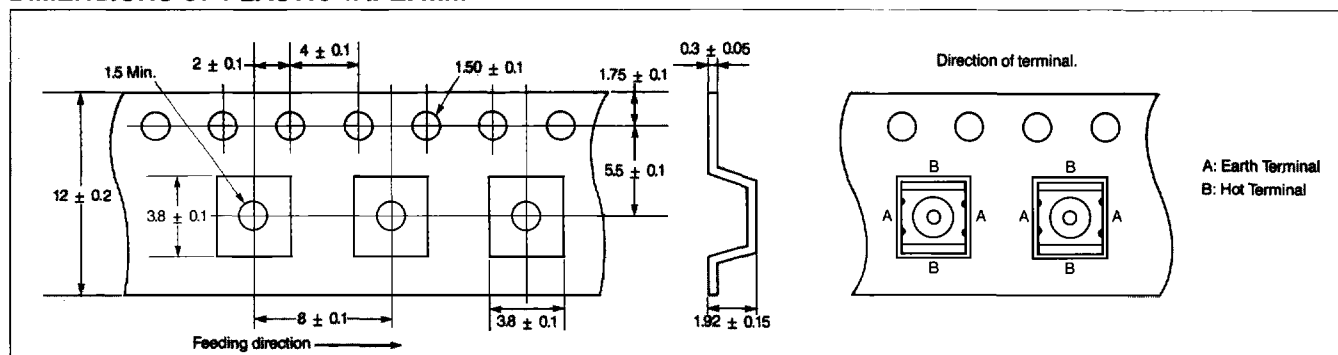
Part Name	Materials	Finish
Center Contact	Phosphor Bronze	Gold plated
Outer Contact	Brass	Gold plated
Insulator	Fiber Reinforced Polypropylene	None

CABLE LENGTH TOLERANCE

Cable length L(mm)*		Dimensional tolerance(mm)
From	To	
50	100	± 3
100	500	± 4
500	1000	± 10
1000	—	+ 2% of L - 0% of L

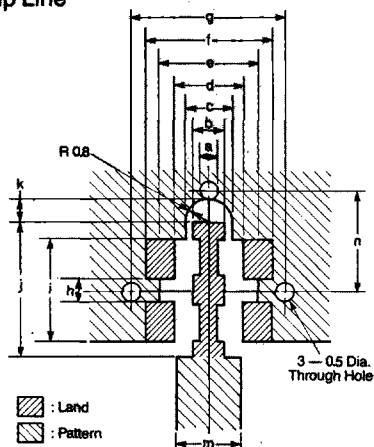
*L must be 50mm Min.

DIMENSIONS OF PLASTIC TAPE: mm



RECOMMENDED MOUNTING DIMENSIONS: mm

For Microstrip Line

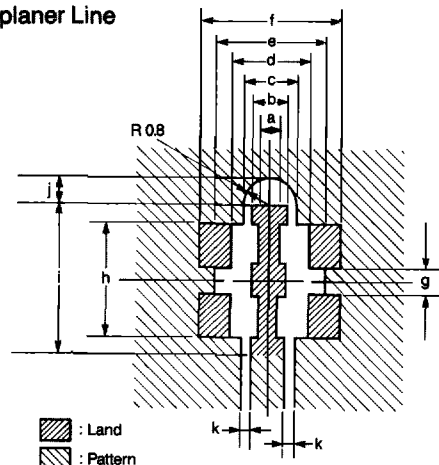


- The material PCB is epoxy resin/glass fabric base (ε_r = 4.8). Thickness is 1.2mm.
- The solder resist should be printed except for the land pattern on the PCB.

a	b	c	d	e	f	g
0.6	1.0	1.6	2.4	3.4	4.2	5.2
h	i	j	k	m	n	
0.9	3.4	4.4	0.8	2.16	2.9	

RECOMMENDED MOUNTING DIMENSIONS: mm

For Coplaner Line



- The material PCB is epoxy resin/glass fabric base (ε_r = 4.8). Thickness is 1.2mm.
- The solder resist should be printed except for the land pattern on the PCB.

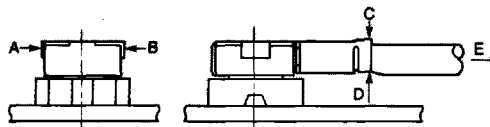
a	b	c	d	e	f
0.6	1.0	1.6	2.4	3.4	4.2
g	h	i	j	k	
0.9	3.4	4.4	0.8	0.3	

ESC Series

APPLICATION NOTES

- Stress limit to the connector: When connected, stress to the connector should be limited as shown in Fig. 3.
- PCB mounting pattern dimensions: Dimensions shown in Fig. 1 and Fig. 2 should be used for PCB design.
- Engagement: Insertion should be made straight to the axis of the connector.
- Disengagement: Use tool P/N M18000. The connector to be disengaged should be pulled out in the vertical direction. Do not try to pull out by the cable.
- Cable and connector handling: Do not apply a twisting torque to the cable and connector.
- REFLOW SOLDERING CONDITION: Reflow soldering should be carried out according to condition shown in Fig. 6.

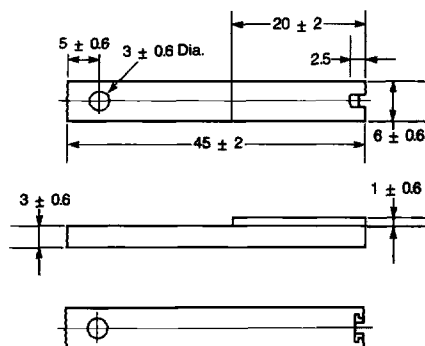
STRESS TO THE CONNECTOR (Fig. 3)



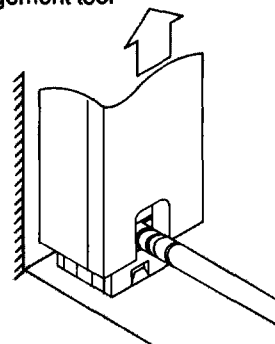
1. Stress to the housing.
Stress A: 0.5kgf (1.1lbs.) Max.
Stress B: 0.8kgf (1.8lbs.) Max.
2. Stress to the outer sleeve.
Stress C: 0.3kgf (0.7lbs.) Max.
Stress D: 0.2kgf (0.4lbs.) Max.
3. Stress to the cable.
Stress E: 0.8kgf (1.8lbs.) Max.

DISENGAGEMENT TOOL (Fig. 4): mm

M18000

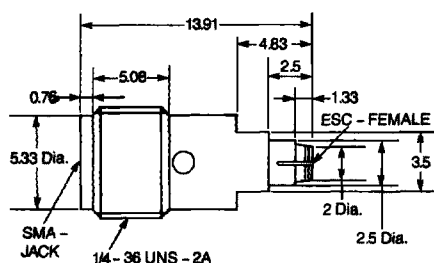


How to use disengagement tool



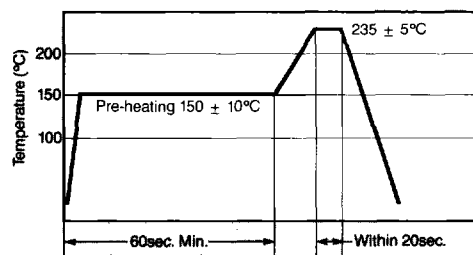
SMA-ESC ADAPTERS (Fig. 5): mm

MM121430 (For ESC type receptacle)



STANDARD REFLOW SOLDERING CONDITIONS (Fig. 6)

Eutectic solder should be used.



MM121440 (For ESC type cable assembly)

