

### FEATURES

- Ultra-miniature for High density mounting (11.6mm<sup>2</sup>).
- 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.).

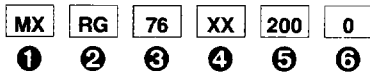
### APPLICATIONS

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



- 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

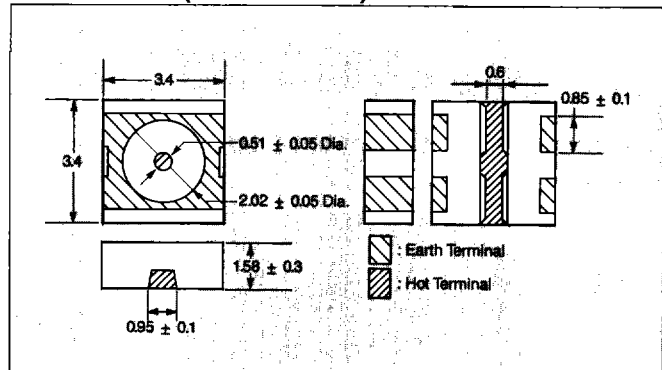
- ⑤⑥ Full length of cable assembly  
Length L(mm) = ⑤ × 10<sup>⑥</sup>  
Ex. 500mm = 500 × 10<sup>0</sup> = 5000  
1000mm = 100 × 10<sup>1</sup> = 1001

Complete cable specifications are on Pages 54 & 55.

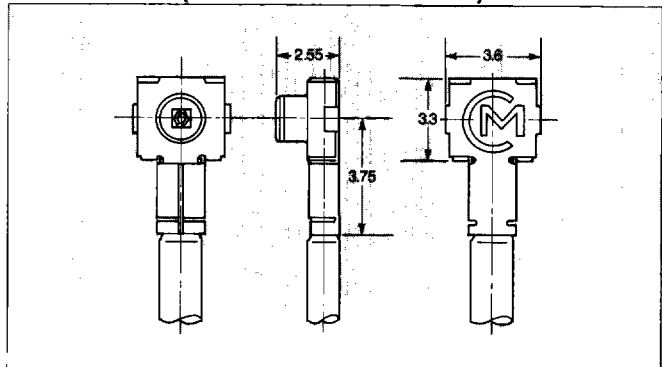
### SPECIFICATIONS

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

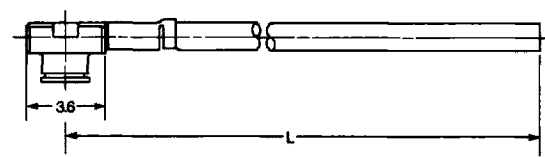
## MATERIALS AND FINISH MM6329-2700 – RECEPTACLE

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

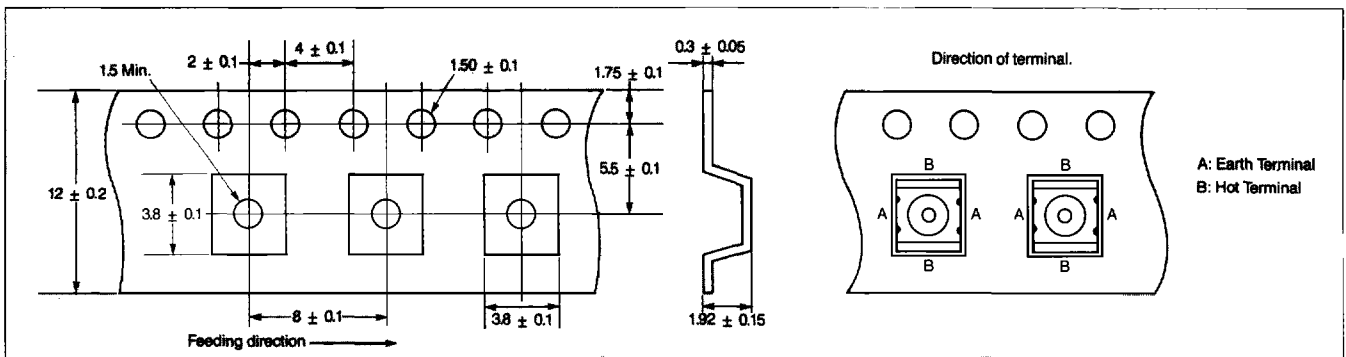
## CABLE LENGTH TOLERANCE



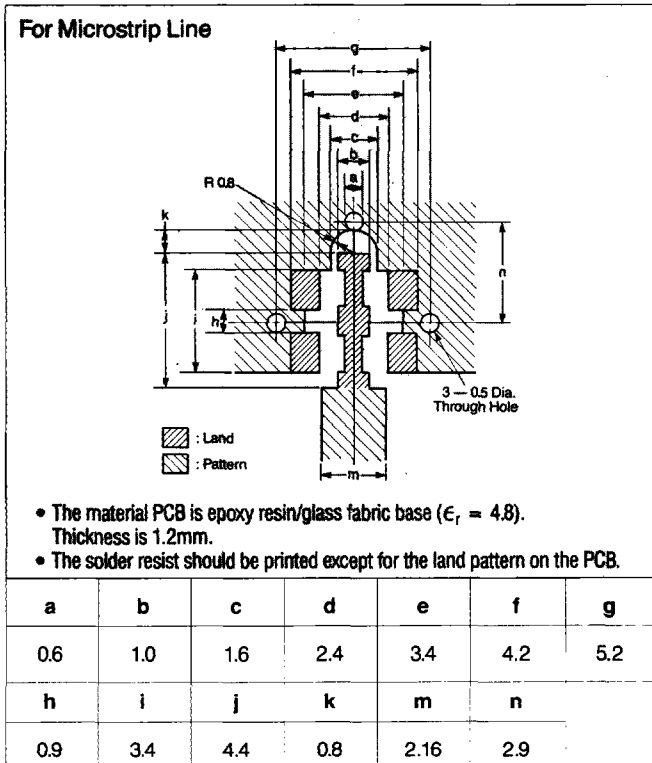
Cable length L(mm)*		Dimensional tolerance(mm)
From	To	
50	100	± 3
100	500	± 4
500	1000	± 10
1000	—	+ 2% of L - 0% of L

\*L must be 50mm Min.

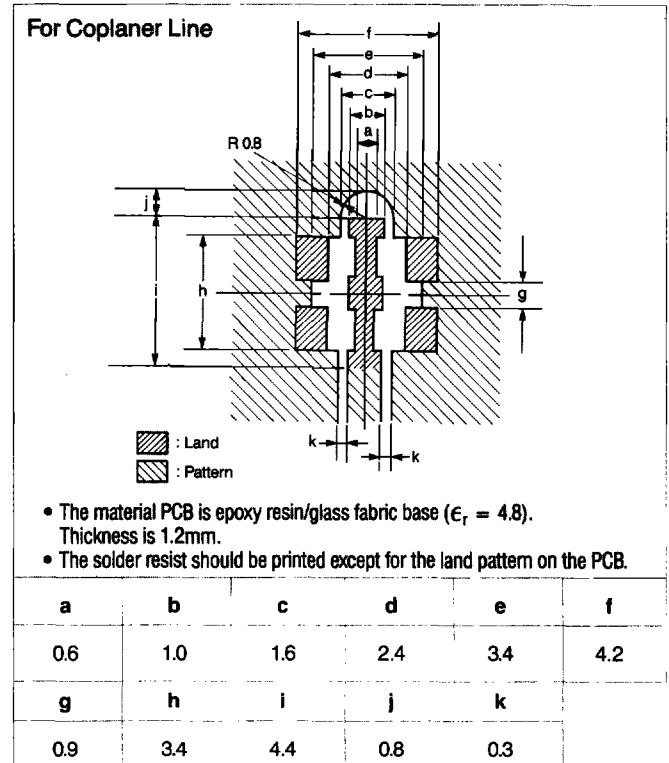
## DIMENSIONS OF PLASTIC TAPE: mm



## RECOMMENDED MOUNTING DIMENSIONS: mm



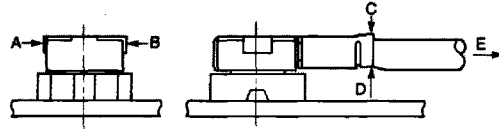
## RECOMMENDED MOUNTING DIMENSIONS: mm



### 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.

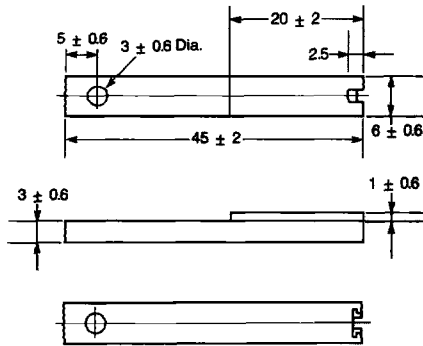
### STRESS TO THE CONNECTOR (Fig. 3)



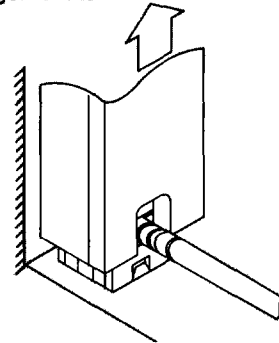
1. Stress to the housing.  
Stress A: 0.5kgf (1.1lbs.) Max.  
Stress B: 0.8kgf (1.8lbs.) Max.
2. Stress to the outer sleeve.  
Stress C: 0.3kgf (0.7lbs.) Max.  
Stress D: 0.2kgf (0.4lbs.) Max.
3. Stress to the cable.  
Stress E: 0.8kgf (1.8lbs.) Max.

### DISENGAGEMENT TOOL (Fig. 4): mm

M18000

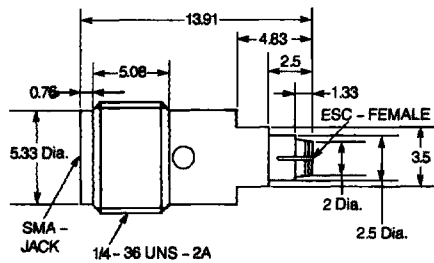


How to use disengagement tool



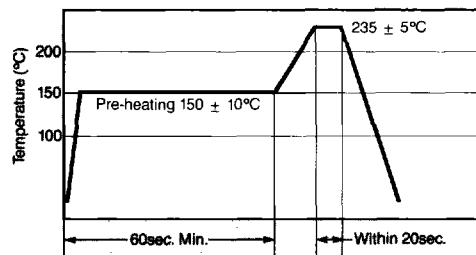
### SMA-ESC ADAPTERS (Fig. 5): mm

MM121430 (For ESC type receptacle)



### STANDARD REFLOW SOLDERING CONDITIONS (Fig. 6)

Eutectic solder should be used.



MM121440 (For ESC type cable assembly)

