

# 深圳康佳通信科技有限公司

## 部品规格确认书

元件编号(PART NO.) : 825000370

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元件型号名称 : 射频转接开关 MM8430-2600B- Murata /#R

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提供资料厂商 : Murata

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页 数 : 7 页

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校 核 : 罗果 2003年3月26日

会 签 : 杨亚锋、梁勇 2003年3月27日

审 核 : 董蜀峰 2003年3月27日

批 准 : 张凯 2003年3月27日

● **Part Numbering** (The structure of the "Global Part Numbers" that have been adopted since June 2001 and the meaning of each code are described herein.)  
If you have any questions about details, inquire at your usual Murata sales office or distributor.

**Coaxial Connectors (Chip Type Receptacle)**

(Global Part Number) **MM** **7329** **-27** **00** **R** **A1**  
① ② ③ ④ ⑤ ⑥

① Product ID

Product ID	
<b>MM</b>	Microwave Coaxial Connectors (Chip Type Receptacle)

② Series

Code	Series
<b>3325</b>	BFA Type Straight
<b>3326</b>	BFA Type Right Angle
<b>7329</b>	FSC Type
<b>8430</b>	SWD Type
<b>9329</b>	GSC Type

③ Individual Specification Code (1)

Code	Individual Specification Code (1)
<b>-25</b>	Discrete Terminal
<b>-26</b>	Switch Connector SMD Type
<b>-27</b>	Connector SMD Type

④ Individual Specification Code (2)

Code	Individual Specification Code (2)
<b>00</b>	Serial

⑤ Package Product ID

Code	Package Product ID
<b>B</b>	Bulk
<b>R</b>	Reel

⑥ Package Detail

Code	Package Detail
<b>A1</b>	FSC, SWD, GSC Type 1000pcs. /Reel (ø178mm)
<b>B3</b>	SWD Type, 3000pcs. /Reel (ø330mm)
<b>B4</b>	FSC Type, 4000pcs. /Reel (ø330mm)
<b>B5</b>	GSC Type, 5000pcs. /Reel (ø330mm)

**Coaxial Connectors (with Cable)**

(Global Part Number) **MX** **FG** **76**        
① ② ③ ④ ⑤ ⑥

① Product ID

Product ID	
<b>MX</b>	Coaxial Connectors (with Cable)

② Connector (1)

Code	Connector (1)
<b>FG</b>	FSC Type for 76 Cable
<b>FK</b>	FSC Type for 81 Cable
<b>TK</b>	GSC Type
<b>YH</b>	BFA Type

③ Cable

Code	Cable
<b>62</b>	0.8D, PE, Double Shield Line
<b>63</b>	0.8D, PE, Single Shield Line
<b>75</b>	0.8D, FEP, Double Shield Line
<b>76</b>	0.8D, FEP, Single Shield Line
<b>81</b>	0.4D, FEP, Single Shield Line
<b>88</b>	0.4D, PFA, Single Shield Line, Single Line
<b>92</b>	0.4D, PFA, Single Shield Line, Spiral

④ Connector (2)

Code	Connector (2)
<b>FG</b>	FSC Type for 76 Cable
<b>FK</b>	FSC Type for 81 Cable
<b>TK</b>	GSC Type
<b>YH</b>	BFA Type
<b>XX</b>	None Connector

⑤ Length

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
<b>5000</b>	500mm = 500 x 10 <sup>0</sup>
<b>1001</b>	1000mm = 100 x 10 <sup>1</sup>

⑥ Individual Specification Code

Expressed by two figures.

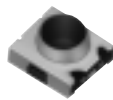
# Microwave Coaxial Connectors



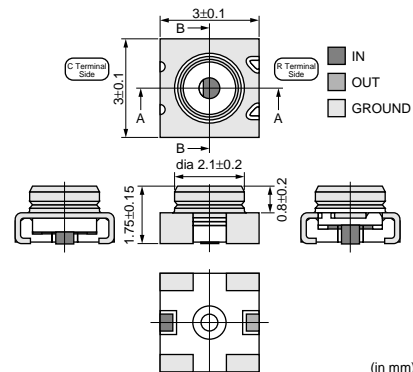
## Microwave Coaxial Connectors with Switch SWD Type

### ■ 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 characteristic. Low IL 0.2dB max.. V.S.W.R. 1.3 max. Isolation 15dB min. (at DC to 6GHz).
5. Surface mountable and reflow solderable.
6. Tape package available.



MM8430-2600B



### ■ Applications

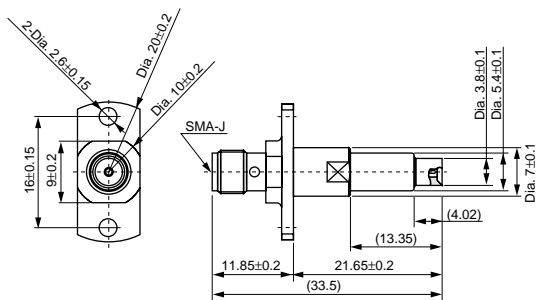
Cellular phone, W-LAN, Other wireless and measurement equipment.

Part Number	Rated Voltage (Vrms)	Contact Resistance (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)
<b>MM8430-2600B</b>	250	0.05 max.	300 (AC)	500	500	DC to 6GHz	-40 to +90	1.2 max.	0.1 max. (DC to 3GHz)	20 min. (DC to 3GHz)	Stainless Steel Gold plated	Copper Alloy Gold Plated	Copper Alloy Silver plated

Impedance : 50 ohm

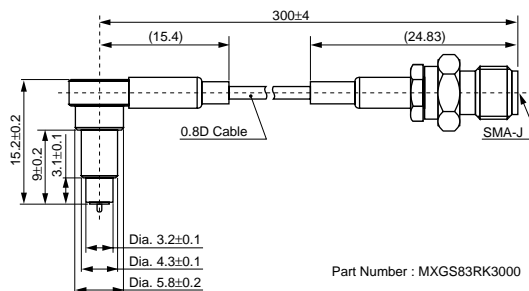
### ■ Measurement Probe Dimensions

MM126036



(in mm)

MXGS83RK3000



Part Number : MXGS83RK3000

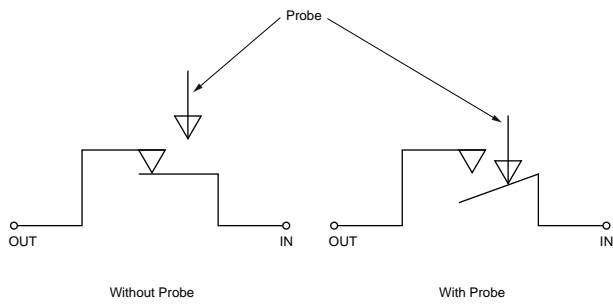
(in mm)

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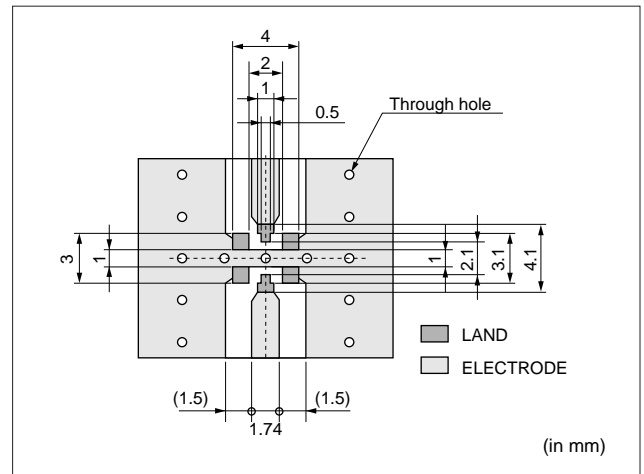
■ Structure



■ Standard Land Dimensions

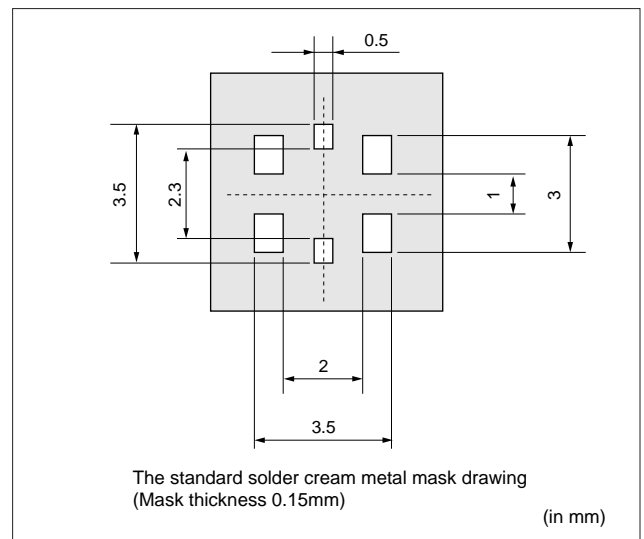
1. Standard pattern dimensions

- Please design I/O pattern so that the impedance match 50 ohm including the land pattern.
- The material of PCB is the epoxy resin of grass fabric base. ( $\epsilon_r=4.8$ ). Thickness is 1.0mm.
- The solder resist should be printed except for the land pattern on the PCB.



2. Standard metal mask pattern

There is possibility to have the contact failure by solder shifting into contact point, if the excess solder is used by non standard metal mask pattern.



## ■ Notice (Storage and Operating Condition)

### 1. Environment Conditions

(1) This product is designed for use of electrical equipment in the environment (temperature, humidity, atmospheric pressure and 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) 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.

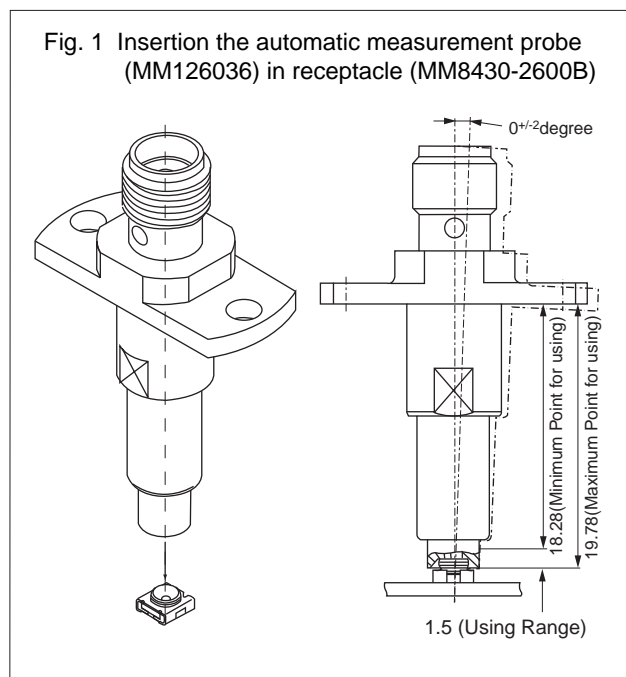
Temperature : -10 to +40 degree C

Humidity : 15 to 85 % RH



■ 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 lock function (MXGS83RK3000)
  - 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.

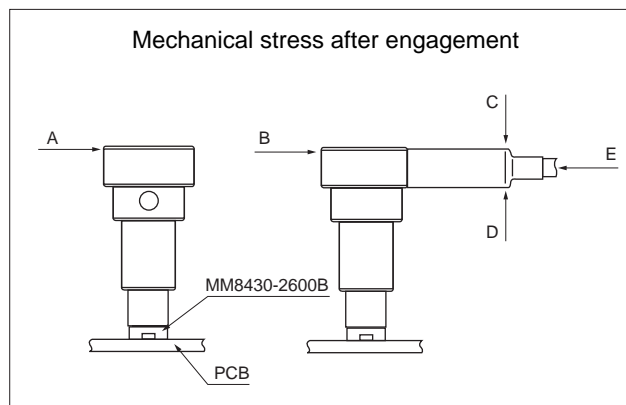
- (1) Stress to the housing.  
Stress A and B: 0.7N Max.
- (2) Stress to the outer sleeve.  
Stress C: 0.6N Max.  
Stress D: 0.6N Max.
- (3) Cable pull strength.  
Stress E: 0.7N Max.

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.

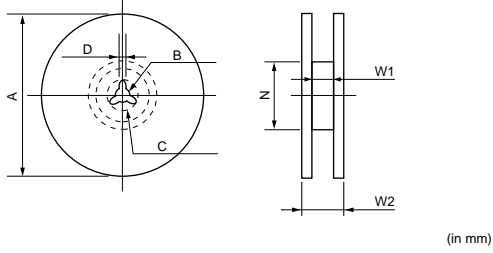
4. Handling

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



# Package

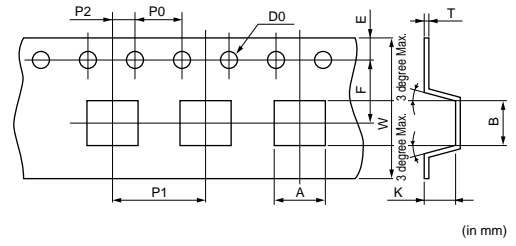
## ■ Dimensions of Reel



(in mm)

Murata Part Number	A	B	C	D	N (min.)	W1	W2 (max.)
MM8430-2600RA1	178	13	21	2	Dia. 50	13.5	18.5
MM8430-2600RB3	330	13	21	2	Dia. 50	13.5	18.5
TOLERANSE	±2.0	±0.5	±0.8	±0.5	-	±1.5	-

## ■ Dimensions of Taping



A	B	W	D0	E	F	K
3.4±0.1	3.4±0.1	12±0.2	Dia.1.5+0.1	1.75±0.1	5.5±0.1	2.0±0.15

P0	P1	P2	T
4±0.1	8±0.1	2±0.1	0.3±0.05

## ■ Minimum Quantity

MM8430-2600RA1: 180 mm dia. reel/1000 pcs.

MM8430-2600RB3: 330 mm dia. reel/3000 pcs.

MM8430-2600B : Bulk/free



## 射频和天线设计培训课程推荐

易迪拓培训([www.edatop.com](http://www.edatop.com))由数名来自于研发第一线的资深工程师发起成立,致力并专注于微波、射频、天线设计研发人才的培养;我们于 2006 年整合合并微波 EDA 网([www.mweda.com](http://www.mweda.com)),现已发展成为国内最大的微波射频和天线设计人才培养基地,成功推出多套微波射频以及天线设计经典培训课程和 ADS、HFSS 等专业软件使用培训课程,广受客户好评;并先后与人民邮电出版社、电子工业出版社合作出版了多本专业图书,帮助数万名工程师提升了专业技术能力。客户遍布中兴通讯、研通高频、埃威航电、国人通信等多家国内知名公司,以及台湾工业技术研究院、永业科技、全一电子等多家台湾地区企业。

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该套装精选了射频专业基础培训课程、射频仿真设计培训课程和射频电路测量培训课程三个类别共 30 门视频培训课程和 3 本图书教材;旨在引领学员全面学习一个射频工程师需要熟悉、理解和掌握的专业知识和研发设计能力。通过套装的学习,能够让学员完全达到和胜任一个合格的射频工程师的要求...

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### HFSS 学习培训课程套装

该套课程套装包含了本站全部 HFSS 培训课程,是迄今国内最全面、最专业的 HFSS 培训教程套装,可以帮助您从零开始,全面深入学习 HFSS 的各项功能和在多个方面的工程应用。购买套装,更可超值赠送 3 个月免费学习答疑,随时解答您学习过程中遇到的棘手问题,让您的 HFSS 学习更加轻松顺畅...

课程网址: <http://www.edatop.com/peixun/hfss/11.html>

## CST 学习培训课程套装

该培训套装由易迪拓培训联合微波 EDA 网共同推出,是最全面、系统、专业的 CST 微波工作室培训课程套装,所有课程都由经验丰富的专家授课,视频教学,可以帮助您从零开始,全面系统地学习 CST 微波工作的各项功能及其在微波射频、天线设计等领域的设计应用。且购买该套装,还可超值赠送 3 个月免费学习答疑...

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## HFSS 天线设计培训课程套装

套装包含 6 门视频课程和 1 本图书,课程从基础讲起,内容由浅入深,理论介绍和实际操作讲解相结合,全面系统的讲解了 HFSS 天线设计的全过程。是国内最全面、最专业的 HFSS 天线设计课程,可以帮助您快速学习掌握如何使用 HFSS 设计天线,让天线设计不再难...

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详情浏览: <http://www.edatop.com/peixun/antenna/116.html>



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- ※ 经验丰富的一线资深工程师讲授,结合实际工程案例,直观、实用、易学

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