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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



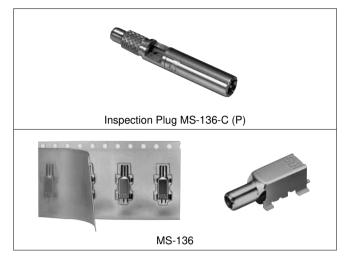
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Coaxial Switches for Check Purposes

MS-136 Series



Features

1.Simplification of Internal Output Checks

The high frequency signal can be simply switched by coupling or uncoupling.

2.Small, Lightweight Design

Switches are small and lightweight with a height of 3.6 mm, length of 11.5 mm, width of 4.6 mm, and weight of 0.5 g.

3.Suited to Automatic Mounting

Embossed tape packaging permits automatic mounting.

Product Specifications

Detina		ency rar	nge impedance	DC to 3 GHz 50Ω		Op	perating temperature range	-30℃ to +85℃	
Rating			ble power	•••		Or	perating relative humidity	(No freezing) 90% or less	
	IVIANI	iuiii usa			2 00			90 % OF 1855	
Item		Standard					Conditions		
1.Contact resistance		50 mΩmax.					Measured at 10 mA		
2.Insulation resistance		1000 MΩ min.					Measured at 100 V DC		
3.Withstand voltage		No line or insulation breakdown					100 V AC for one minute		
		1.3 N•C 1.35 or less 1.4			1.4		Measured at DC to 1 GHz Measured at 1 to 2 GHz		
4.VSWR				N•O	1.7 or less				
					1.8		Measured at 2 to 3 GHz		
		0.3 dB			0.3 dB		Measured at DC to 1 GHz		
5.Insertion loss	6	N•C	0.4 dB or less	N•O	0.6 dB or less		Measured at 1 to 2 GHz	Z	
		0.5 dB			0.8 dB		Measured at 2 to 3 GHz		
		20 dB					Measured at DC to 1 GHz		
6.Reverse Directi	ion Loss	16 dB d	or greater				Measured at 1 to 2 GHz		
		14 dB					Measured at 2 to 3 GHz		
			ctrical disconned	-	s or greater		Frequency of 10 to 55 Hz, overall amplitude of 1.5 mm,		
7.Vibration res	istance	Contac	t resistance: 70	mΩ max.			in 3 axial directions, 2 hours each		
			nage, cracks, or	•			III S axial directions, 2 nouis each		
		No electrical disconnections of 1μ s or greater					490 m/s ² acceleration, half sine wave, in 3 axial		
8.Shock resista	ance		t resistance: 70				directions, 6 times each		
			nage, cracks, or	parts loos	eness				
9.Insertion/Withdra	awal life	70 mΩ or less					5000 insertion/withdrawal cycles		
		Contact resistance: 70 mΩ max.					Leave for 96 hours at a temperature of 40°C and		
10.Humidity resistance		Insulation resistance: 10 MΩ min.					humidity of 90 to 95%		
		No damage, cracks, or parts looseness							
		Contact resistance: 70 mΩ max.					(-55°C: 30 min. → 5 to 35°C: 5 min. → 85°C: 30 min. →5		
		Insulation resistance: 1000 MΩ min.					to 35° C: 5 min.) for 5 cycles		
		No damage, cracks, or parts looseness				······································			
12.Corrosion resistance		Contact resistance: 70 mΩ max. No serious corrosion					Continuous immersion in 5% salt water for 48 hours		

•The test method conforms to JIS.

•The temperature resistance cycle, humidity resistance, and shock resistance tests are verification tests of part deterioration and looseness, not tests to be conducted at time of switching or when conducting.

Applications

Portable terminals and mobile wireless equipment.



MS-136

Part	Material	Processing	
External conductor (B)	Phosphor bronze	Gold plating	
Insulation	Polyamide resin		
Contact (A)	Phosphor bronze	Gold plating	
Contact (B)	Beryllium copper	Gold plating	

MS-136-C (P)

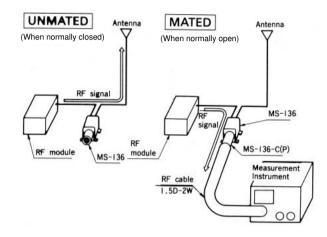
Part	Material	Processing
External ring	Phosphor bronze	Gold plating
External conductor	Phosphor bronze	Nickel plating
Male contact	Phosphor bronze	Gold plating
Insulation	Teflon	
Crimp sleeve	Copper	Nickel plating

Product Number Breakdown

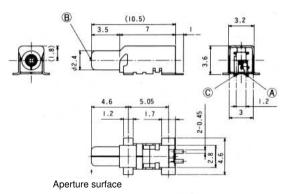
 $\frac{\text{MS}}{\bullet} - \frac{136}{\textcircled{0}} - \frac{\text{C}(\text{P})}{\textcircled{0}}$

- 2 Series No.: 136
- **3**C (P): Indicates a straight plug

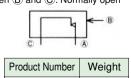
■Application Diagram



External Dimensions

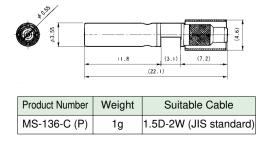


The circuit structure is as described below. Between (A) and (C): Normally closed Between (B) and (C): Normally open

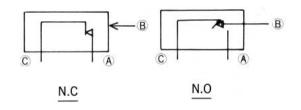


	1 Toddol Trainbol	Weight	
	MS-136	0.5g	
ماريما			al :4 a

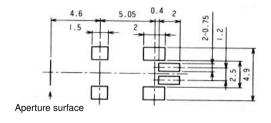
NOTE: When ordering embossed tape packaged items, affix (06) to the end of the product number.



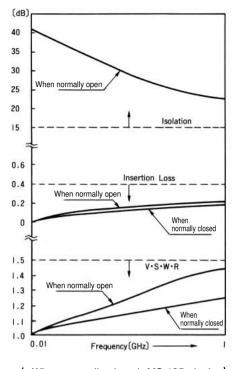
■Circuit Structure Diagram



■Recommended Board Pattern Diagram



Coaxial Switches for Check Purposes (DC to 1.0 GHz)

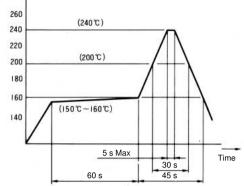


When normally closed: MS-135 single item condition When normally open: MS-135 and MS-135-C (P) coupled condition

Recommended Temperature Profile

(VPS Reflow and IR Reflow)

Temperature (Åé)



When hand soldering is used, use a tip temperature of 280Åé or less and a soldering time of 3 seconds or less.