



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!



## Contact us

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## SMA and Reverse Polarity SMA Specifications

Materials		
Connector Part	Material	Finish
Bodies	Brass	Nickel or Gold
	Stainless Steel	Passivated or Gold
Center contact	Male: Brass	Gold
	Female: Beryllium Copper	
Insulator	PTFE	N/A
Crimp ferrule	Annealed Copper	Nickel or Gold

Electrical			
Electrical Data	Detail		
Impedance	50 ohm		
Frequency range	Flexible cable: 0~12.4GHz		
	Semi-rigid cable: 0~18GHz		
Working voltage	RG402 (.141") » 500 volts rms max.		
	RG405 (.085") » 335 volts rms max.		
	RG58, 141, 142, 223/U » 500 volts rms max.		
	RG174, 188, 316/U » 335 volts rms max.		
	RG178, 196/U » 250 volts rms max.		
Insulation resistance	5,000 megaohms min.		
Dielectric withstanding voltage	RG402 (.141") » 1,000 volts rms max.		
	RG405 (.085") » 750 volts rms max.		
	RG58, 141, 142, 223/U » 1,000 volts rms max.		
	RG174, 188, 316/U » 750 volts rms max.		
	RG178, 196/U » 500 volts rms max.		
Contact resistance	Center contact: 3.0 milliohms max.		
	Outer contact: 2.0 milliohms max.		
VSWR: f(GHz)		Straight	Right angle
	RG178/U	1.20+0.025f	1.20+0.03f
	RG174, 316/U	1.15+0.02f	1.15+0.03f
	RG58, 141, 142, 223/U	1.10+0.01f	1.15+0.02f
	RG402 (.141")	1.05+0.005f	1.15+0.15f
	RG405 (.085")	1.05+0.005f	1.18+0.15f
Insertion loss	0.04dB max. x $\sqrt{f}$ GHz (straight)		
	0.06dB max. x $\sqrt{f}$ GHz (right angle)		

## Mechanical

Mechanical Data	Detail
Engagement force	60lbs min.
Disengagement force	15 inch-pound
Connector durability	500 cycles min.
Cable retention force	RG58, 141, 142, 223/U » 40lbs min.
	RG174, 188, 316/U » 20lbs min.

## Environmental

Environmental Data	Detail
Corrosion (salt spray)	MIL-STD-202 METHOD 101 TEST CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 TEST CONDITION B
Vibration	MIL-STD-202 METHOD 204 TEST CONDITION D
Mechanical shock	MIL-STD-202 METHOD 213 TEST CONDITION I
Temperature Range	-65°C to 165°C