



The SMA series are very popular screw coupling miniature coaxial connectors, which are developed and produced according to the relative specifications of MIL-C-39012, IEC 169-15 and CECC 22110. They have the characteristics of high reliability, high mechanical stability, long life, and optimum electrical properties, are widely used to connect RF coaxial cables for microwave equipment and electronic communication instruments.

TECHNICAL CHARACTERISTICS

Environmental

Temperature range	-65 ~ +165 °C
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Electrical Characteristics

Characteristic impedance	50Ω
Working voltage	300V max
Frequency range	DC-12.4GHz for flexible cables, DC-18GHz for semi-rigid cables
Dielectric withstanding voltage	1000V (volts RMS) at sea level
Contact resistance	Center contact: $\leq 3m\Omega$, Outer contact: $\leq 2m\Omega$
Insulation resistance	$\geq 5000M\Omega$
Insertion loss	0.15dB at 6GHz
RF leakage	2~3GHz, -60dB (Flexible cable), -90dB (Semi-rigid cable)
VSWR	Flexible cable (straight) $\leq 1.15+0.02f$
	Flexible cable (right angle) $\leq 1.20+0.03f$
	Semi-rigid cable (straight) $\leq 1.05+0.01f$
	Semi-rigid cable (right angle) $\leq 1.10+0.01f$

TECHNICAL CHARACTERISTICS

Material and Plating

Body	Brass, gold/nickel plated or stainless steel passivated
Male center contacts	Brass, gold plated
Female center contacts	Beryllium copper, gold plated
Insulators	PTFE
Gaskets	Silicon rubber
Crimp ferrules	Copper alloy, nickel plated

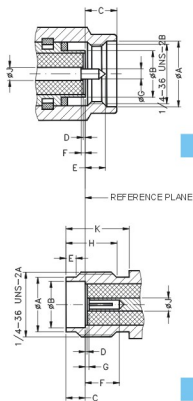
Mechanical Characteristics

Durability	500 cycles
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INTERFACE MATING DIMENSIONS

Letter	PLUG (mm)	
	Minimum	Maximum
A	6.35	6.73
B	4.53	4.59
C	2.54	3.43
D	0.00	0.18
E	1.91	2.54
F	0.00	0.25
G	0.90	0.94
J	1.24	1.30

Letter	JACK (mm)	
	Minimum	Maximum
A	5.28	5.49
B	4.60	4.70
C	1.88	1.98
D	0.00	0.18
E	0.38	1.14
F	2.92	-
G	0.00	0.25
H	4.32	-
J	1.24	1.30
K	5.54	-

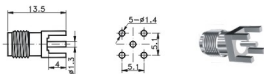


PLUG

JACK

3. PCB MOUNT RECEPTACLES

Straight Jack Receptacle



Part
Number

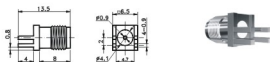
GB
Type

Remarks

SMA 1215006

SMA-KHD12

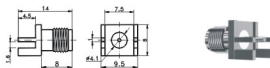
Straight Jack Receptacle



SMA 1215003

SMA-KHD9

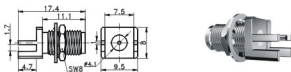
Straight Jack Receptacle



SMA 1215002

SMA-KHD5

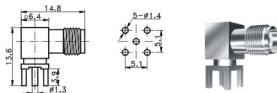
Straight Bulkhead Jack Receptacle



SMA 1235001

SMA-(E)KYHD

Right Angle Jack Receptacle

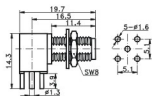


SMA 2215002

SMA-KWHD3

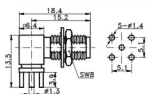
3. PCB MOUNT RECEPTACLES

Right Angle Bulkhead Jack Receptacle



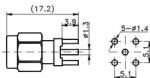
Part Number	GB Type	Remarks
SMA2235001	SMA-(E)KYWHD	

Right Angle Bulkhead Jack Receptacle



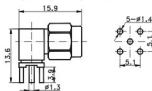
SMA2235002	SMA-(E)KYWHD1	
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Straight Plug Receptacle



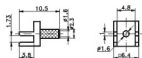
SMA1115002	SMA-JHD1	
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Right Angle Plug Receptacle



SMA2115002	SMA-JWHD1	
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PCB Mount Cable Termination

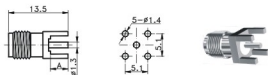


SMA1415001	SMA-2.5HD	2.650S
SMA1415002	SMA-(E)2.5DHD	2.650D

SMA REVERSE POLARITY

2. PCB MOUNT RECEPTACLES

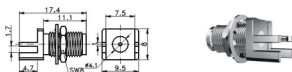
Straight Jack Receptacle



Part Number	GB Type	Remarks
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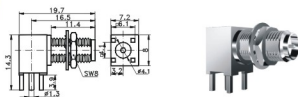
(RP)SMA1115002	(RP)SMA-JHD1	A=4
(RP)SMA1115003	(RP)SMA-JHD2	A=1

Straight Bulkhead Jack Receptacle



(RP)SMA1135001	(RP)SMA-JYHD	
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Right Angle Bulkhead Jack Receptacle



(RP)SMA2135001	(RP)SMA-JYWH	
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3. IN SERIES ADAPTER

Straight Plug To Jack



(RP)SMA1316001	(RP)SMA-JK	
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