



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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Description

The SMC name derives from SubMiniature C (the third subminiature design). The SMC design was developed in the 1960's. SMC has threaded coupling with 10-32 threads.

Available in 50 & 75 ohm impedance.

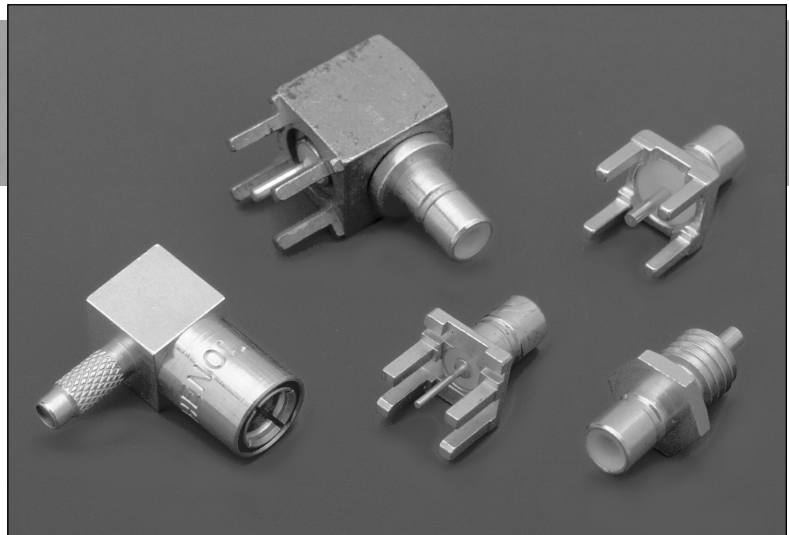
Utilizes die cast components on non-critical areas to provide a low cost solution.

Features/Benefits

- Broadband performance with low reflection DC to 10 GHz provides low cost connector combined with high quality.
- Conforms to the interface dimensions of MIL-STD-348 provides intermatability with other connector suppliers. Offers customer second source.
- 10-32 screw-on (threaded) coupling mechanism allows performance to 10 GHz with low reflection.
- Right Angle connectors available in one piece construction ensures better performance combined with low cost.

Application

- Antennas
- Automotive (GPS)
- Base Stations
- Cable Assemblies
- Components
- Instrumentation
- PC/LAN
- Process Controls
- Radio Boards
- Surge Protection
- Telecom
- Test and Measurement
- Video Systems



SMC Connectors

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Straight and Right Angle PCB	54

ELECTRICAL

Impedance	50 ohms
Frequency range	0-4 GHz with low reflection; usable to 10.0 GHz
Voltage rating	Sea level: 335 volts 70,000 ft: 85 volts
Dielectric Withstanding voltage (max.)	750 VRMS RG-196 1000 VRMS for RG-188 type
VSWR straight connectors rt. angle connectors	RG-196/U series 1.30 + .04 f (GHz) 1.45 + .06 f (GHz)
straight connectors rt. angle connectors	RG-188/U series 1.25 + .04 f (GHz) 1.35 + .06 f (GHz)
Contact resistance Center: initial after environ. Outer: initial after environ. Braid to body: initial after environ.	6.0 milliohms 8.0 milliohms 1.0 milliohms 1.5 milliohms 1.0 milliohms N/A
Insulation resistance	1000 megohms min.
RF leakage	-55 dB min. @ 2-3 GHz
Insertion Loss straight connectors rt. angle connectors	0.30 dB @ 1.5 GHz 0.60 dB @ 1.5 GHz

MECHANICAL

Mating	50 Ohm screw-on coupling per MIL-STD-348
Mating torque	Recommended 2-3" lbs. maximum 6.2" lbs. 80-110 N.cm
Connector affixment to cable	Braid and Jacket: hex. crimp
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Cable retention	Equal to breaking strength of cable employed
Connector durability	500 mating and unmating cycles min.

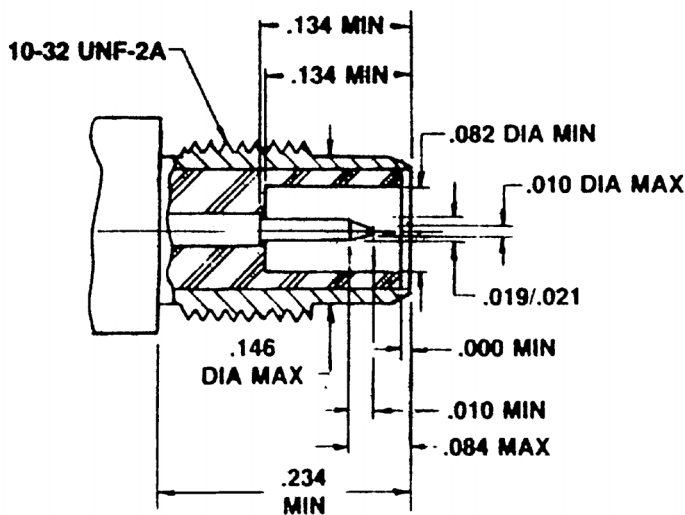
MATERIAL

Bodies	Brass per QQB-626 or zinc per ASTM B86-71, as specified, nickel or gold plated as listed
Center contacts	Female: beryllium copper, gold plated Male: brass or beryllium copper, gold plated
Outer contact	Nickel or gold plated as listed
Crimp ferrules	Annealed copper alloys
Insulators	TFE

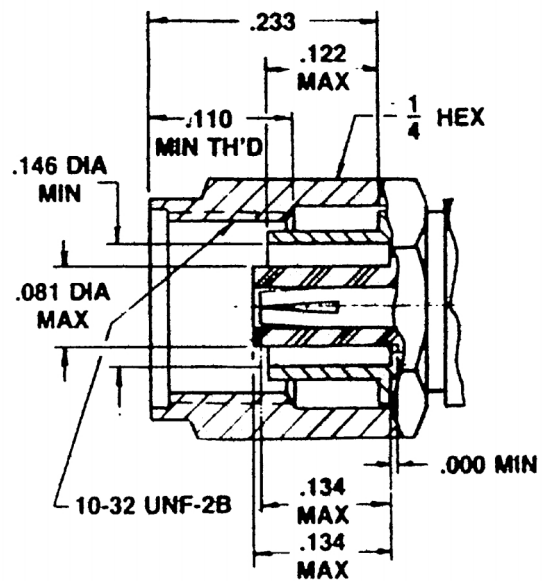
ENVIRONMENTAL

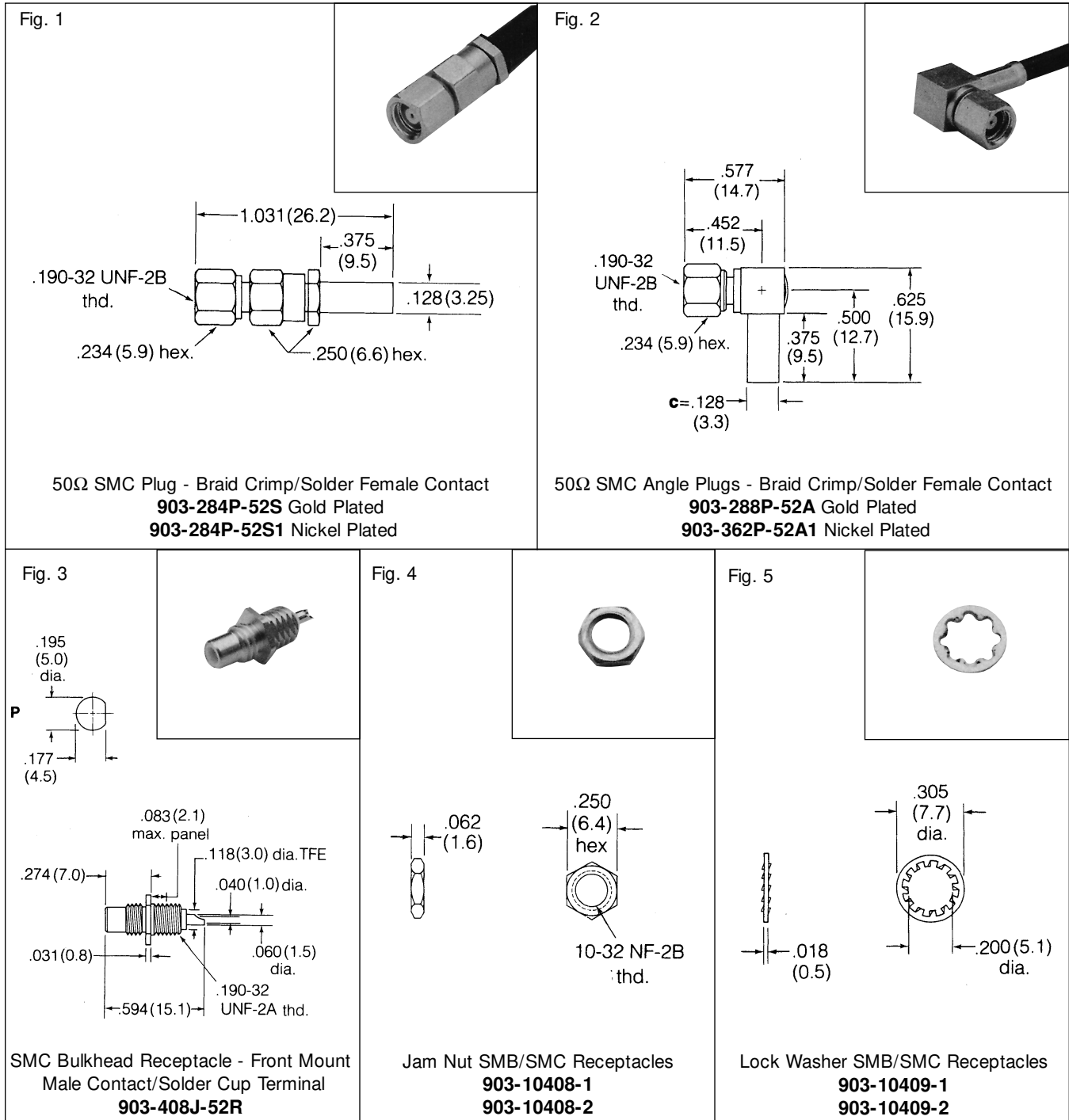
Temperature range	-65°C to + 165°C
Thermal shock	MIL-Std. 202 method 107 condition C
Vibration	MIL-Std. 202 method 204 condition D
Shock	MIL-Std. 202 method 213 condition C
Corrosion	MIL-Std. 202 method 101 condition B

PLUG



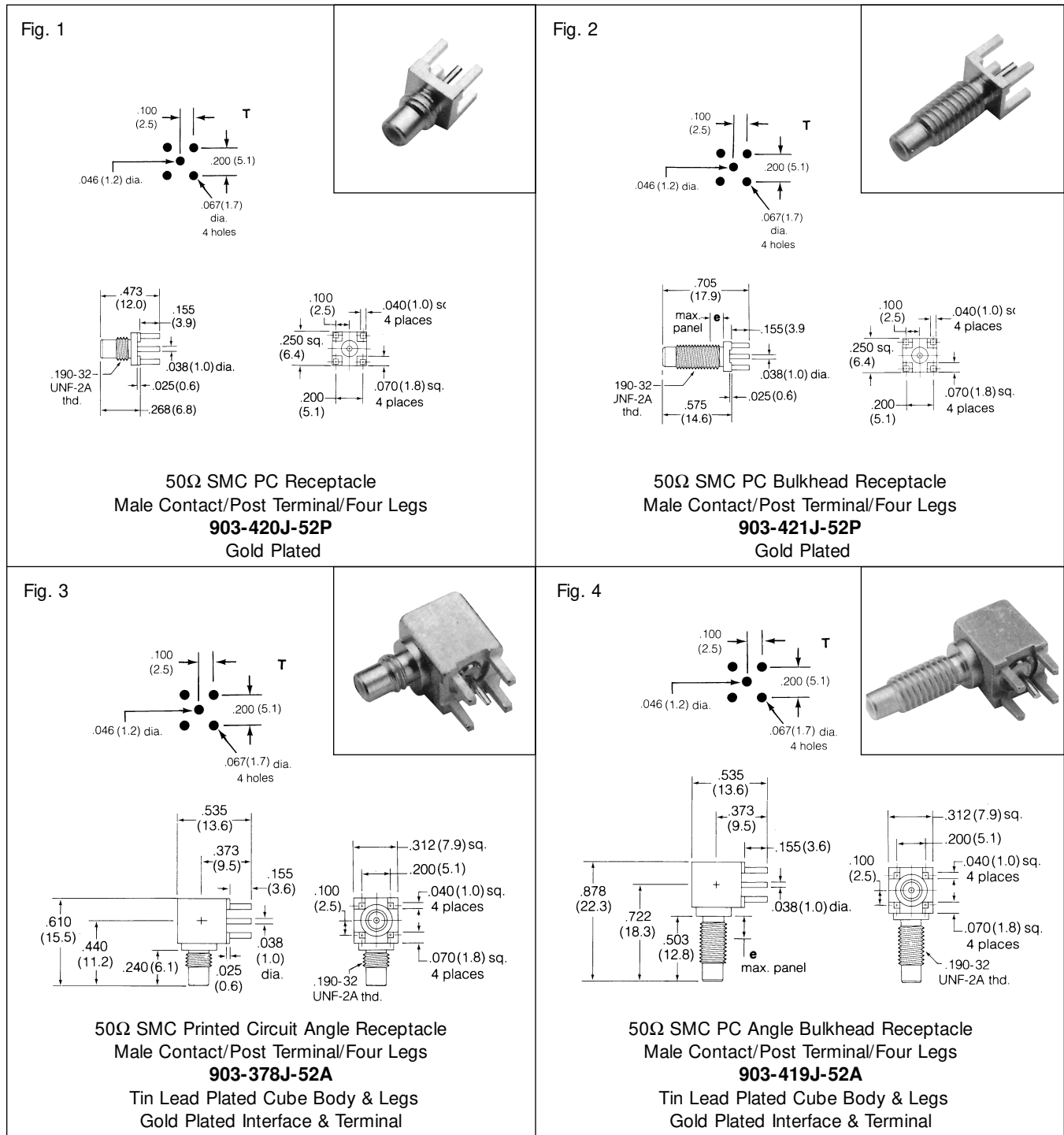
JACK





SMC PLUGS, ANGLE PLUGS, BULKHEAD RECEPTACLES & ACCESSORIES

Cable RG-/U	Connector Description	Cable Attachment		c Dia. In. (mm)	MTG Hole	CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner								
RG-174, 179, 187 188, 316	Plug	Crimp	Solder	.128 (3.3)	—	C25	P19	D1	Gold plated body	903-284P-52S	1
	Angle Plug	Crimp	Solder	.128 (3.3)	—	C26	P19	D1	Nickel plated body	903-284P-52S1	2
Dbl. Br. 316	Angle Plug	Crimp	Solder	.100 (2.5)	—	C26	P32	D1	Gold plated body	903-288P-52A	2
—	Angle Plug	Crimp	Solder	.100 (2.5)	—	C26	P32	D1	Nickel plated body	903-362P-52A1	2
—	Bulkhead Jack Rec. Front solder/mount cup term.	—	—	—	P	—	P19	D1	Gold plated / captive contact	903-408J-52R	3
—	Jam nut for SMB/SMC Receptacles	—	—	—	—	—	P42	—	Gold plated	903-10408-1	4
—	Jam nut for SMB/SMC Receptacles	—	—	—	—	—	P4	—	Nickel plated	903-10408-2	
—	Lockwasher for SMB/SMC receptacles	—	—	—	—	—	P42	—	Gold plated	903-10409-1	5
—	Lockwasher for SMB/SMC receptacles	—	—	—	—	—	P4	—	Nickel plated	903-10409-2	



SMC PRINTED CIRCUIT BOARD RECEPTACLES

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Dim. e	Amphenol Number	Fig.
Printed Circuit Straight Jack Receptacle	Blunt Post	T	P19	D1	—	—	903-420J-52P	1
Printed Circuit Straight Bulkhead Jack Receptacle	Blunt Post	T	P19	D1	—	.125 (3.2)	903-421J-52P	2
Printed Circuit Right Angle Jack Receptacle	Blunt Post	T	P27	D1	Leak Tight	—	903-378J-52A	3
Printed Circuit Right Angle Bulkhead Jack Receptacle	Blunt Post	T	P27	D1	Leak Tight	.125 (3.2)	903-419J-52	4