50 Ohm SMA Field Replaceable 2-Hole Flange Mount Plug Receptacle -With EMI Gasket



INCHES (MILLIMETERS) CUSTOMER DRAWINGS AVAILABLE UPON REQUEST



→ →	.223 (5.66)
	- .499 12.67 -►
2X Ø.102 (2.59)	
Ø.625 (15.88) .481 (12.22)	
EMI GASKET ——/	5/16 HEX

ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.015 (0.38)	0-26.5 GHz	142-1801-611	142-1801-616

SMA - 50 Ohm Connectors

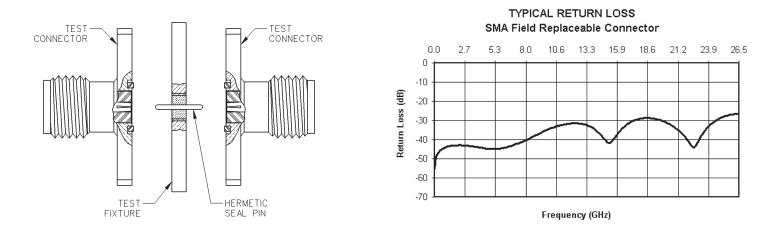


Field Replaceable - Application Notes

The field replaceable style of connector is known by many names in the industry, such as MIC launcher, hermetic seal launcher, spark plug launcher, etc. Some types, such as those known as "spark plugs", have the hermetic seal incorporated into the connector. These types require special welding to install and can not be replaced without destroying the hermeticity of the circuit housing. True field replaceable connectors, such as those manufactured by Johnson Components[™], are easy to install and replace. Because the hermetic seal is not incorporated into the connector design, the connector can be removed and replaced without destroying the hermetic seal or the hermeticity of the circuit housing.

All of the above mentioned connector types perform the same basic function - creating a transition from microstrip circuitry to a coaxial transmission line. Whenever possible, the hermetic seal pin diameter should be chosen as close as possible to the microstrip trace width. For optimum electrical performance, the transition from the hermetic seal to the microstrip trace must be properly compensated. Compensation involves adjusting the microstrip trace width to minimize any impedance discontinuities found in the transition area.

The plot shown below is representative of the typical return loss of an Johnson Components[™] field replaceable connector. To produce the data shown below, a test fixture is created using the appropriate Johnson Components[™] hermetic seal. The fixture consists of a suitably thick spacer plate with the hermetic seal mounted flush to both surfaces. Two connectors are mounted back to back around the fixture and the VSWR of this test assembly is measured. The return loss data shown is equivalent to the square root of the measured VSWR of the test assembly. Since the connectors tested are of identical design, it can be stated with fair accuracy that the data shown represents the response of a single field replaceable connector and its transition to the hermetic seal.



Although Johnson Components[™] does not publish a VSWR specification for field replaceable connectors, typical connector VSWR can be expected to be less than 1.1 + .01f (f in GHz). A VSWR specification is not stated because an industry standard method for tes ting field replaceable connectors does not exist. The actual performance of the connector is dependent upon the application for the following reasons:

- 1. The choice of hermetic seal to be used by the customer is not specified by the connector manufacturer. Hermetic seals produced by different manufacturers will not have the same electrical characteristics. For optimum electrical performance, Johnson Components[™] recommends the use of our standard 142-1000-001, 002, 003 and 004 hermetic seals for pin diameters of .012 (0.30), .015 (0.38), .018 (0.46) and .020 (0.51). Custom hermetic seal configurations can be guoted.
- 2. It is recommended that the hermetic seal be mounted flush with the circuit housing. Tolerance variations between the hermetic seal and machined housing do not always guarantee an optimum transition to the connector. Some manufacturers recommend an additional counterbore in the circuit housing to accommodate a solder washer during installation of the seal. Johnson Components[™] does not recommend this type of installation because if the counterbore is not completely filled with solder, electrical discontinuities may be created.
- 3. The transition between the hermetic seal pin and the microstrip trace will affect electrical performance, as stated above. Several different methods of hermetic seal mounting and seal pin to microstrip trace attachment are used in the industry. Johnson Components[™] can not recommend one method over the other as this is dependent upon the customer's application.

As always, quotes for non-standard field replaceable connectors and/or hermetic seals are welcome.

SMA - 50 Ohm Connectors

Specifications

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INCHES (MILLIMETERS) CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

ELECTRICAL RATINGS

Impedance: 50 ohms			
Frequency Range:			
Dummy loads		0-	-2 GHz
Flexible cable connectors			
Uncabled receptacles, RA		s 0-18.	.0 GHz
Straight semi-rigid cable co	onnectors and		
field replaceable connecto	rs	0-26	
VSWR: (f = GHz)	Straight		
	Cabled Connectors		
RG-178 cable	1.20 + .025f	1.20 + .0	
RG-316, LMR-100 cable	1.15 + .02f	1.15 + .(
RG-58, LMR-195 cable		1.15 + .(
RG-142 cable		1.15 + .(
LMR-200, LMR-240 cable		1.10 + .(
.086 semi-rigid	1.07 + .008f	1.18 + .(
.141 semi-rigid (w/contact)		1.15 + .(015f
.141 semi-rigid (w/o contact)			
Jack-bulkhead jack adapter a	and plug-plug adapter		5 + .01f
Jack-jack adapter and plug-ja	ack adapter	1.05	+ .005f
Uncabled receptacles, dumn	iy loads		N/A
Field replaceable (see page			N/A
Working Voltage: (Vrms ma	ximum)		
Connectors for Cable Type		Sea Level 70	
RG-178	· · · · ·	170	45
RG-178 RG-316; LMR-100, 195, 20	90	170	
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240	9 00 , .086 semi-rigid,	170 250	45 65
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles14	00 , .086 semi-rigid, 1 semi-rigid w/o contac	170 250 t 335	45 65 85
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contact	00 , .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters	170 250 t 335 500	45 65 85 125
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads	00 , .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters	170 250 t 335 500	45 65 85 125
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum	170 250 t 335 500 n at sea level)	45 65 85 125 N/A
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters	170 250 t 335 500 n at sea level)	45 65 85 125 N/A 500
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200	170 250 t 335 500 n at sea level)	45 65 85 125 N/A 500
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-38, RG	00 , .086 semi-rigid, 1 semi-rigid w/o contac ct and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 so	170 250 t 335 500 n at sea level) emi-rigid,	45 65 125 N/A 500 750
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-38, RG field replaceable, uncable	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 so d receptacles	170 250 t 335 500 n at sea level) emi-rigid,	45 65 125 N/A 500 750 1000
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi-	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 so rigid with contact and ac	170 250 t 335 500 n at sea level) emi-rigid, dapters	45 65 125 N/A 500 750 1000 1500
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi-	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 MR-100, 195, 200 -142, LMR-240, .086 so rigid with contact and ac rigid w/o contact, dumm	170 250 t 335 500 n at sea level) emi-rigid, dapters	45 65 125 N/A 500 750 1000 1500
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contact Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi- Connectors for .141 semi-	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 so rigid with contact and ac rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet)	170 250 t 335 500 n at sea level) emi-rigid, dapters y loads	45 65 125 N/A 500 750 750 1000 1500 N/A
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi-	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 G-142, LMR-240, .086 se rigid with contact and ac rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet)	170 250 t 335 500 n at sea level) emi-rigid, dapters y loads	45 65 125 N/A 500 750 1000 1500 N/A 125
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contac Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 so rigid with contact and ac rigid with contact and ac rigid w/o contact, dumm um at 70,000 feet) MR-100, 195, 200	170 250 t 335 500 n at sea level) emi-rigid, dapters y loads	45 65 125 N/A 500 750 1000 1500 N/A 125
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contact Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-38, RG	00 , .086 semi-rigid, 1 semi-rigid w/o contac t and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 se rigid with contact and ac rigid with contact, dumm um at 70,000 feet) MR-100, 195, 200 -142, LMR-240, 086 se	170 250 t 335 500 n at sea level) emi-rigid, dapters y loads	45 65 125 N/A 500 750 750 1000 1500 N/A 125 190
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contact Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-316; LI Connectors for RG-58, RG uncabled receptacles, .14'	00 , .086 semi-rigid, 1 semi-rigid w/o contact tage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 se rigid with contact and act rigid with contact, dumm um at 70,000 feet) MR-100, 195, 200 -142, LMR-240, 086 se 1 semi-rigid w/o contact	170 250 t 335 500 n at sea level) emi-rigid, dapters y loads	45 65 125 N/A 500 750 750 1000 125 190 250
RG-178 RG-316; LMR-100, 195, 20 RG-58, RG-142, LMR-240 uncabled receptacles, .14 .141 semi-rigid with contact Dummy loads Dielectric Withstanding Vo Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-58, RG field replaceable, uncable Connectors for .141 semi- Connectors for .141 semi- Connectors for .141 semi- Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-178 Connectors for RG-316; LI Connectors for RG-38, RG	00 , .086 semi-rigid, 1 semi-rigid w/o contact t and adapters Itage: (VRMS minimum MR-100, 195, 200 -142, LMR-240, .086 se rigid with contact and act rigid with contact, dumm um at 70,000 feet) MR-100, 195, 200 -142, LMR-240, 086 se 1 semi-rigid w/o contact rigid with contact and act semi-rigid w/o contact	170 250 t 335 500 n at sea level) emi-rigid, dapters y loads	45 65 125 N/A 500 750 750 1000 1500 N/A 125 190 250 375

Straight flexible cable connectors and adapters
connectors
connectors with contact 0.03 \lor f (GHz), tested at 10 GHz Right angle semi-rigid cable connectors
connectors
connectors w/o contact 0.03 ✓ f (GHz), tested at 16 GHz Straight low loss flexible ✓ f (GHz), tested at 1 GHz Right Angle low loss flexible ✓ f (GHz), tested at 1 GHz Right Angle low loss flexible ✓ f (GHz), tested at 1 GHz Uncabled receptacles, field replaceable, dummy loads N/A Insulation Resistance: (milliohms maximum) Initial After Environmental Contact Resistance: (milliohms maximum) Center contact (straight cabled connectors and uncabled receptacles) 3.0* 4.0* Center contact (right angle cabled connectors and adapters) 4.0 6.0 Field replaceable connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors -90 dB
cable connectors
cable connectors0.15 ✓ f (GHz), tested at 1 GHz Uncabled receptacles, field replaceable, dummy loadsN/A Insulation Resistance: 5000 megohms minimum Contact Resistance: (milliohms maximum) Initial After Environmental Center contact (straight cabled connectors and uncabled receptacles) 3.0* 4.0* Center contact (right angle cabled connectors and adapters) 4.0 6.0 Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) -60 dB Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket -90 dB -90 dB
Insulation Resistance: 5000 megohms minimum Contact Resistance: (milliohms maximum) Initial After Environmental Center contact (straight cabled connectors and uncabled receptacles) 3.0* 4.0* Center contact (right angle cabled connectors and adapters) 4.0 6.0 Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) -60 dB Flexible cable connectors, adapters and .141 semi-rigid connectors -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket -90 dB -90 dB
Contact Resistance: (milliohms maximum) Initial After Environmental Center contact (straight cabled connectors and uncabled receptacles) 3.0* 4.0* Center contact (right angle cabled connectors and adapters) 4.0 6.0 Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors -90 dB Two-way adapters -90 dB Two-way adapters -90 dB
Center contact (straight cabled connectors and uncabled receptacles) 3.0* 4.0* Center contact (right angle cabled connectors and adapters) 4.0 6.0 Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors -90 dB Two-way adapters -90 dB
Center contact (right angle cabled connectors and adapters) 4.0 6.0 Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors -90 dB Two-way adapters -90 dB -90 dB -90 dB
connectors and adapters) 4.0 6.0 Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket -90 dB Two-way adapters -90 dB -90 dB -90 dB
Field replaceable connectors 6.0 8.0 Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors -90 dB Two-way adapters -90 dB -90 dB -90 dB -90 dB
Outer contact (all connectors) 2.0 N/A Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket -90 dB Two-way adapters -90 dB
Braid to body (gold plated connectors) 0.5 N/A Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors -90 dB Two-way adapters -90 dB -90 dB -90 dB
Braid to body (nickel plated connectors) 5.0 N/A *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket -90 dB Two-way adapters -90 dB
 *N/A where the cable center conductor is used as a contact RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact
RF Leakage: (dB minimum, tested at 2.5 GHz) Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket -90 dB Two-way adapters -90 dB
Flexible cable connectors, adapters and .141 semi-rigid connectors w/o contact -60 dB Field replaceable w/o EMI gasket -70 dB .086 semi-rigid connectors and .141 semi-rigid connectors -90 dB with contact, and field replaceable with EMI Gasket -90 dB Two-way adapters -90 dB
connectors w/o contact
Field replaceable w/o EMI gasket
.086 semi-rigid connectors and .141 semi-rigid connectors with contact, and field replaceable with EMI Gasket
with contact, and field replaceable with EMI Gasket
Two-way adapters
I wo-way adapters
LINCADIEN RECENTACIES AUMINVINANS
DE Link Detential Withstending Valtages (V/mag minimum tested at 4
RF High Potential Withstanding Voltage: (Vrms minimum, tested at 4 and 7 MHz)
Connectors for RG-178
Connectors for RG-316; LMR-100, 195, 200
Connectors for RG-58, RG-142, LMR-240, .086 semi-rigid,
.141 semi-rigid cable w/o contact, uncabled receptacles
Connectors for .141 semi-rigid with contact and adapters
Power Rating (Dummy Load): 0.5 watt @ + 25°C, derated to 0.25 watt @
+125°C

MECHANICAL RATINGS

Engagement Design: MIL-C-39012, Series SMA	С
Engagement/Disengagement Force: 2 inch-pounds maximum	C
Mating Torque: 7 to 10 inch-pounds	C
Bulkhead Mounting Nut Torque: 15 inch-pounds	С
Coupling Proof Torque: 15 inch-pounds minimum	С
Coupling Nut Retention: 60 pounds minimum	С
Contact Retention:	С
6 lbs. minimum axial force (captivated contacts)	С
4 inch-ounce minimum torque (uncabled receptacles)	*(
	_

Cable Retention:	Axial Force*(lbs)	Torque (in-oz)
Connectors for RG-178		N/A
Connectors for RG-316, LMR-10	0 20	N/A
Connectors for LMR-195, 200	30	N/A
Connectors for RG-58, LMR-240	40	N/A
Connectors for RG-142	45	N/A
Connectors for .086 semi-rigid	30	16
Connectors for .141 semi-rigid	60	55
*Or cable breaking strength whic	hever is less.	
Durability: 500 cycles minimum		
400 such a solution for 444 a	a section test at a second a set a se	

100 cycles minimum for .141 semi-rigid connectors w/o contact

ENVIRONMENTAL RATINGS (Meets or exceed the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C Thermal Shock: MIL-STD-202, Method 107, Condition B Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I Vibration: MIL-STD-202, Method 204, Condition D Moisture Resistance: MIL-STD-202, Method 106

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.