

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348
FORCE TO ENGAGE	2 IN-LBS. MAX.
FORCE TO DISENGAGE	2 IN-LBS. MAX.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	6 LBS. MIN.
DURABILITY	500 CYCLES MIN.
CENTER CONTACT INSERTION FORCE (INTERFACE)	2 LBS. MIN.
CENTER CONTACT WITHDRAWL FORCE (INTERFACE)	1.0 OZ. MIN.
CABLE RETENTION	50 LBS. MIN.
MASS	25 GRAMS NOM.
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms. NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 18 GHz	1.18:1 MAX.
INSERTION LOSS	0.03 $\sqrt{F(\text{GHz})}$ dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1500 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz.	-90 dB MIN.
CORONA EXTINCTION	375 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1000 Vrms. MIN.
CONTACT RESISTANCE (INNER)	3 Milliohms MAX.
CONTACT RESISTANCE (OUTER)	2 Milliohms MAX.
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-65°C to +165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B
MATERIAL AND FINISH	
BODY CLAMP NUT	STEEL, CORROSION RESISTANT, CONDITION A, NON-MAGNETIC PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACT RING	BRASS, UNS NO. C36000, PER ASTM-B-16. GOLD PLATE PER MIL-G-45204, 50 MICROINCHES MIN., OVER NICKEL PLATE PER QQ-N-290, 50 MICROINCHES MIN.
CONTACT	BERYLLIUM COPPER, UNS NO. C17300, PER ASTM-B-196. GOLD PLATE PER MIL-G-45204, 50 MICROINCHES MIN., OVER NICKEL PLATE PER QQ-N-290, 50 MICROINCHES MIN.
INSULATOR	TFE FLUOROCARBON PER ASTM-D-1710.
DIELECTRIC STOP	ULTEM (1000) PER ASTM-D-5205.
APPLICATION	
CABLE(S)	311 SERIES
INSTALLATION	PER CONFIGURATOR

REV.	DESCRIPTION	DATE	BY	APPVD.
1	PRELIMINARY RELEASE	7/27/055	JMK	DBK

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TOLERANCES UNLESS OTHERWISE SPECIFIED

.XX	± .02
.XXX	± .005
.XXXX	± .0010
ANGLES	± 2°

INITIALS	DATE
DWN. JMK	7/27/05
CHKD.	
APPVD.	

TITLE					
SMA JACK, 311 SERIES					

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B11-1989.	FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
	64639	B	2:1	1 OF 1	SD901129	1

SPECIFICATION DRAWING

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