JOHNSON®

SMA High Frequency
End Launch Connectors

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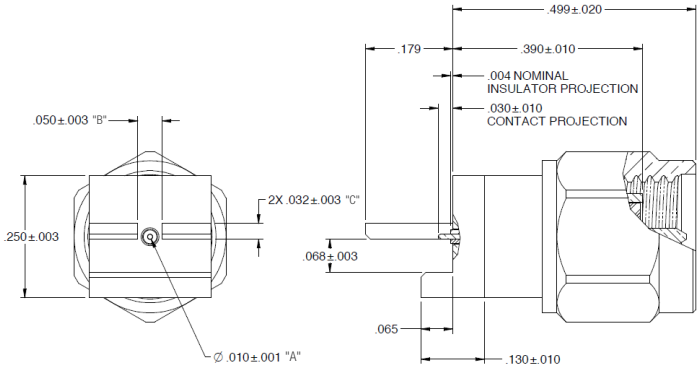
HIGH FREQUENCY SMA END LAUNCH CONNECTORS

Product Information

JOHNSON®

PLUG ASSEMBLY - END LAUNCH FOR .062 BOARD, 10 MIL PIN

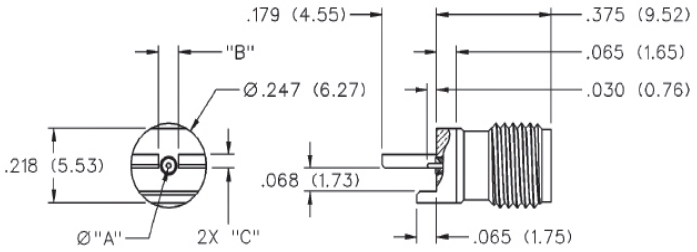
Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"	"C"
0-26.5 GHz	142-0861-851	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)	.032 (0.81)



JACK RECEPTACLE – END LAUNCH FOR .062 BOARD, ROUND BODY

Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"	"C"
0-26.5 GHz	142-0761-841	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)	.032 (0.81)
	142-0761-861	.014 (0.36) - .020 (0.51)	.015 (0.38)	.067 (1.70)	.140 (1.02)

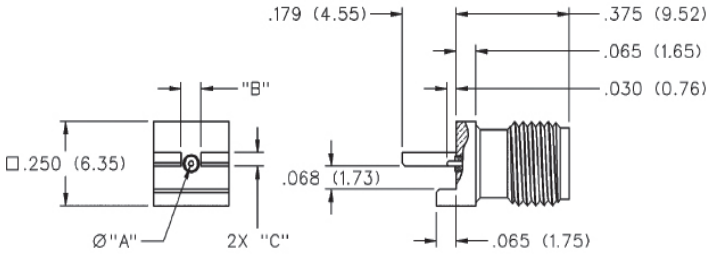
Coupling proof torque 8 inch pounds maximum without support wrench



JACK RECEPTACLE – END LAUNCH FOR .062 BOARD, SQUARE BODY

Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"	"C"
0-26.5 GHz	142-0761-851	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)	.096 (2.44)
	142-0761-871	.014 (0.36) - .020 (0.51)	.015 (0.38)	.067 (1.70)	.113 (2.87)

Coupling proof torque 8 inch pounds maximum without support wrench



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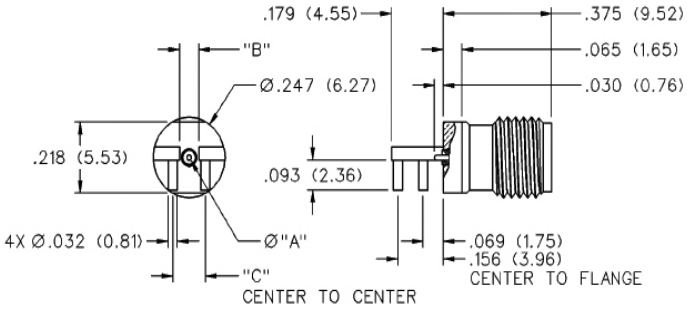
Product Information

JACK RECEPTACLE – END LAUNCH, ROUND BODY

Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"	"C"
0-26.5 GHz	142-0761-801	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)	.096 (2.44)
	142-0761-821	.014 (0.36) - .020 (0.51)	.015 (0.38)	.067 (1.70)	.113 (2.87)

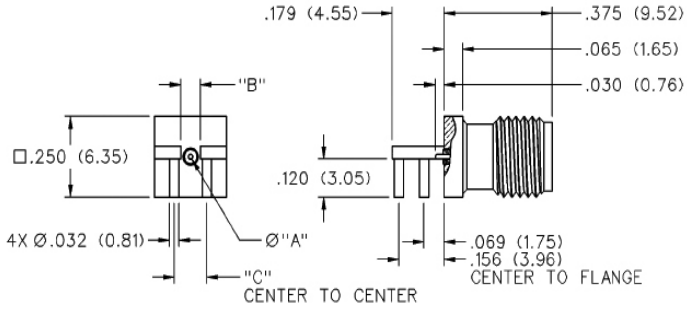
Coupling proof torque 8 inch pounds maximum without support wrench



JACK RECEPTACLE – END LAUNCH, SQUARE BODY

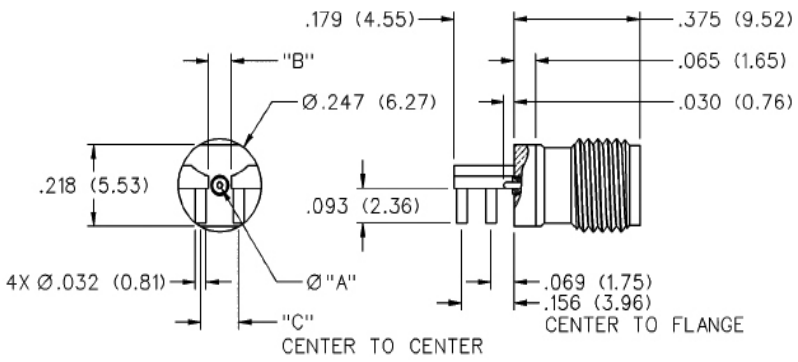
Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"	"C"
0-26.5 GHz	142-0761-811	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)	.096 (2.44)
	142-0761-831	.014 (0.36) - .020 (0.51)	.015 (0.38)	.067 (1.70)	.113 (2.87)

Coupling proof torque 8 inch pounds maximum without support wrench



JACK RECEPTACLE – END LAUNCH, ROUND BODY WITH THICK LEGS

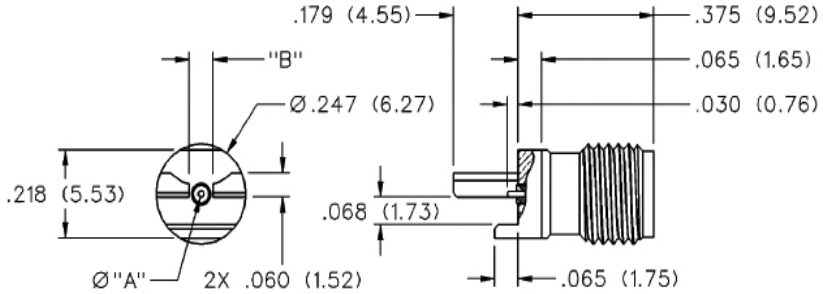
Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"	"C"
0-26.5 GHz	142-0761-881	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)	.096 (2.44)
	142-0771-821	.014 (0.36) - .020 (0.51)	.015 (0.38)	.067 (1.70)	.113 (2.87)



HIGH FREQUENCY SMA END LAUNCH CONNECTORS

Product Information & Assembly Tool

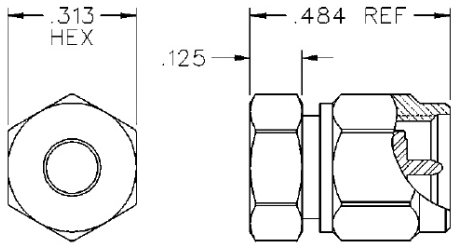
JACK RECEPTACLE – END LAUNCH FOR .062 BOARD, ROUND BODY WITH THICK LEGS



Freq Range	Gold Plated	High Frequency Substrate Thickness	"A"	"B"
0-26.5 GHz	142-0761-891	.008 (0.20) - .014 (0.36)	.010 (0.25)	.050 (1.27)
	142-0771-831	.014 (0.36) - .020 (0.51)	.015 (0.38)	.067 (1.70)

ASSEMBLY TOOL FOR END LAUNCH JACK RECEPTACLES

Hand tighten to 5 inch pounds maximum
torque 140-0000-973



ELECTRICAL SPECIFICATIONS		
Impedance	50 Ohms	
Frequency Range	0 - 26.5 GHz	
VSWR	1.05+.02F (GHz) maximum at 0-18 GHz	<1.50 typical at 18-26.5 GHz
Working Voltage	170 Vrms maximum at sea level	45 Vrms maximum at 70K feet
Dielectric Withstanding Voltage	500 Vrms minimum at sea level	
Corona Level	125 Volts at 70K feet	
Insertion Loss	Dependant upon application	
Insulation Resistance	1000 Megohms minimum	
Contact Resistance	(milliohms maximum)	
Initial After Environmental	Center Contact . . . 3.0 4.0	Outer Conductor. . 2.0 Not Applicable
RF Leakage	Not Applicable	
RF High Potential Withstanding Voltage	335 Vrms minimum at 4 & 7 MHz	

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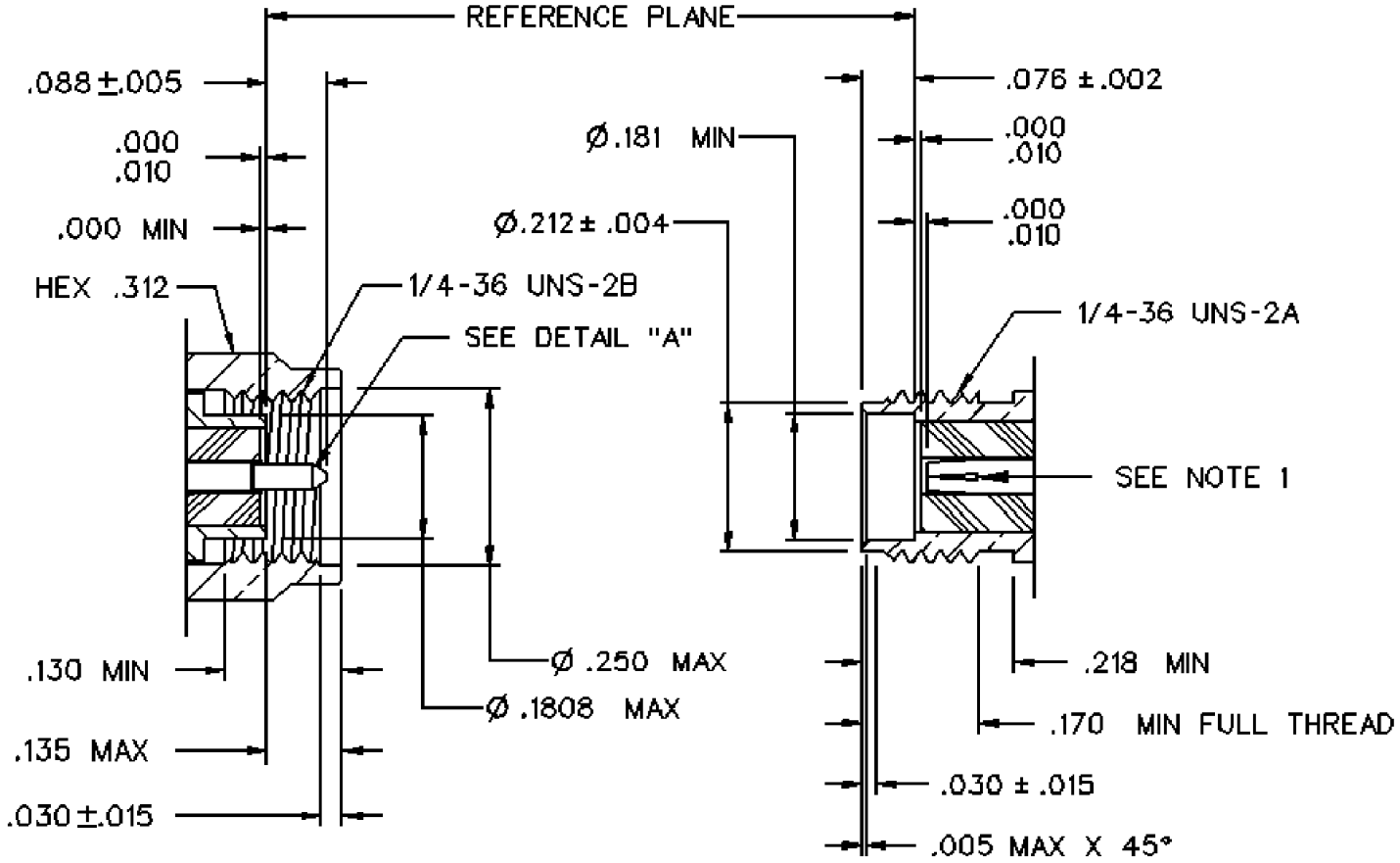
MATING ENGAGEMENT FOR SMA SERIES
Thickwall Plug Compatable with MIL-STD-348

1. ID TO MEET VSWR, CONTACT RESISTANCE AND INSERTION WITHDRAWAL FORCES WHEN MATED WITH A DIA .0355-.0370 PIN.



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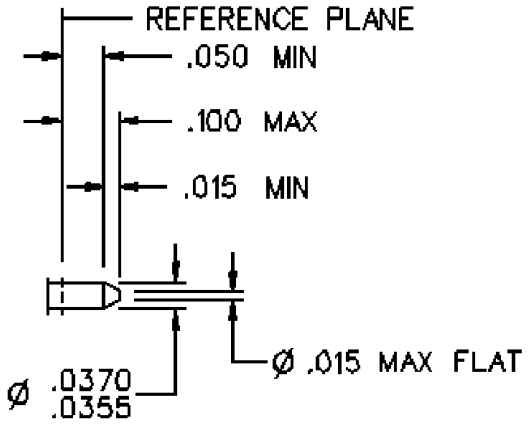
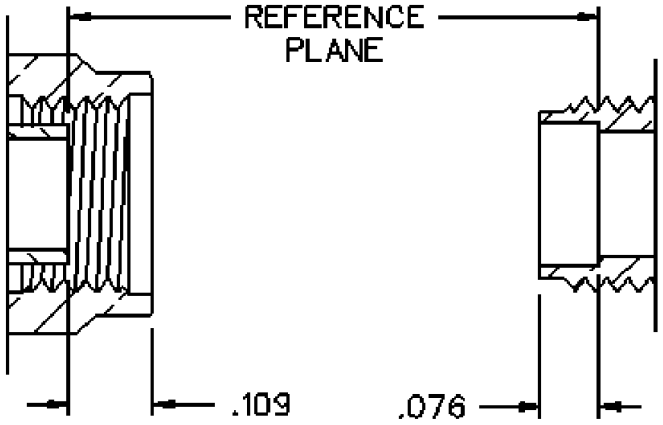
Technical Specifications

MECHANICAL SPECIFICATIONS		
Engagement Design	MIL-STD-348, Series SMA	
Durability	500 Cycles minimum	
Engagement/Disengagement Force	2 inch-pounds maximum	
Mating Torque	7 to 10 inch-pounds	
Contact Retention Withstanding Voltage	6 pounds minimum axial force	4 in-oz minimum radial torque



ENVIRONMENTAL SPECIFICATIONS Meets or Exceeds the Applicable Paragraph of MIL-RF-39012	
Temperature Range	-65°C to +165°C
Corrosion	MIL-STD-202, Method 101, Condition B
Thermal Shock	MIL-STD-202, Method 107, Condition B-Except 115°C High Temp
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Moisture Resistance	MIL-STD-202, Method 106



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