

1.85mm Interface at a Glance

The 1.85mm connector was designed for mode free operation through 65 GHz. The interface uses a mostly air-dielectric with a support bead that is set back in the body of the connector to reduce bead interaction in a mated pair. Like the 2.92mm and 2.4mm connector, the body has been designed to ensure that the outer conductors engage before the center conductors make contact. The 1.85mm interface uses an M7 thread and is compatible only with the 2.4mm interface. SV Microwave supplies adapters to mate 1.85mm connectors to SMA and 2.92mm connectors.

Electrical Specifications

Impedance	50Ω
Frequency	65 GHz
VSWR	1.03 + .005 f
Insertion Loss	.04 √ f
Shielding Effectiveness	≥ 100 dB

Mechanical Specifications

Mating Cycles	500
Mating Torque	5 - 7 in - lbs
Inter-mate ability	2.4mm

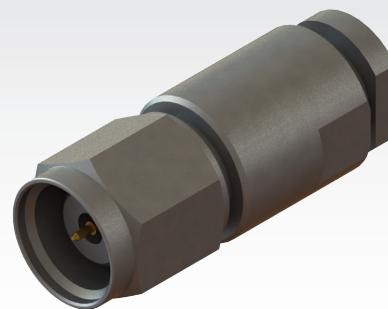
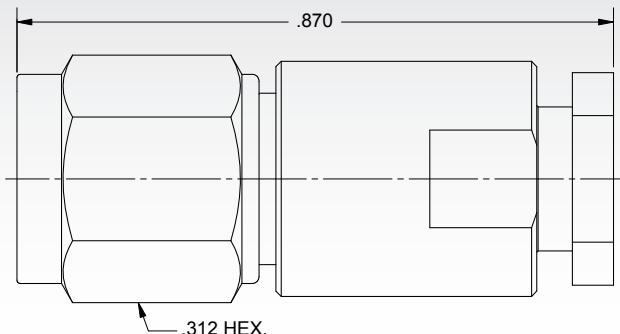
Environmental Specifications

Temperature Rating	-65°C to +165°C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D, 20 Gs
Shock	MIL-STD-202, Method 213, Condition I, 100 Gs
Thermal Shock	MIL-STD-202, Method 107. Cond. B, -65°C to +125°C
Moisture Resistance	MIL-STD-202, Method 106, Less Step 7B
Barometric Pressure (Altitude)	MIL-STD-202, Method 105, Condition C, 70k Ft.

Note: Specifications, dimensions and images are typical for the series and may vary by part number

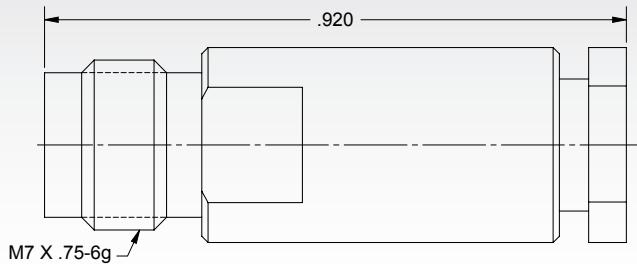
1.85MM SERIES

Male Cable Connector



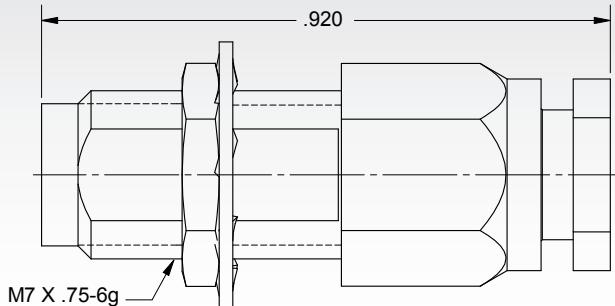
Cable	P/N
.047	SF3311-60002
.085	SF3311-60003

Female Cable Connector



Cable	P/N
.047	SF3321-60005
.085	SF3321-60006

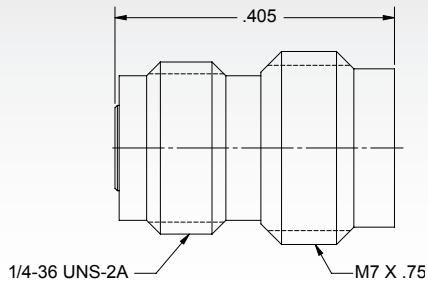
Female Bulkhead Cable Connector



Cable	P/N
.047	SF3321-60004
.085	SF3321-60007

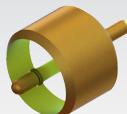
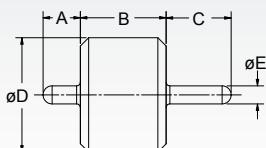
1.85MM SERIES

Female Sparkplug Connector (Accepts Ø.008" Pin)



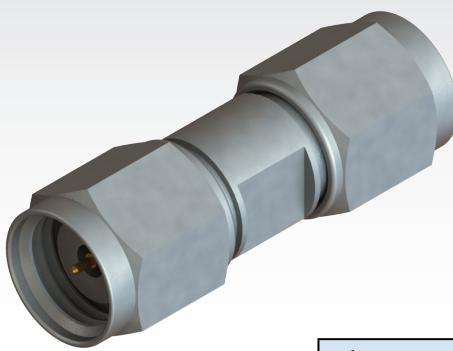
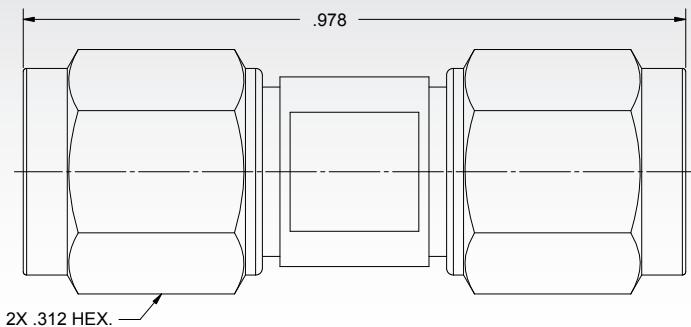
P/N
SF3375-6001

Feed-Thru Hermetic Seal



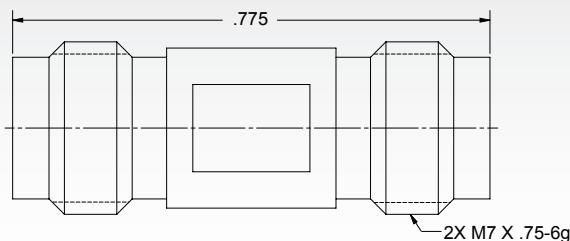
P/N	A	B	C	ØD	ØE
066-15-000	.040"	.055"	.029"	.076"	.012"
066-15-001	.040"	.055"	.080"	.076"	.012"
066-15-002	.030"	.055"	.026"	.068"	.009"
066-15-003	.030"	.055"	.080"	.068"	.009"
066-15-004	.030"	.055"	.120"	.068"	.009"
066-15-005	.050"	.060"	.125"	.158"	.020"

1.85mm Male to Male Adapter



P/N
SF1133-6009

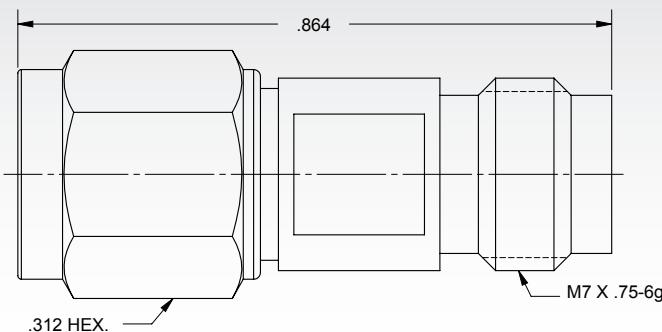
1.85mm Female to Female Adapter



P/N

SF1133-6008

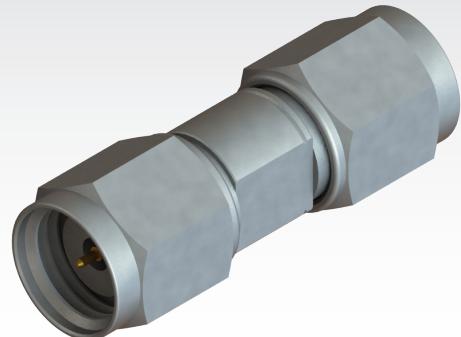
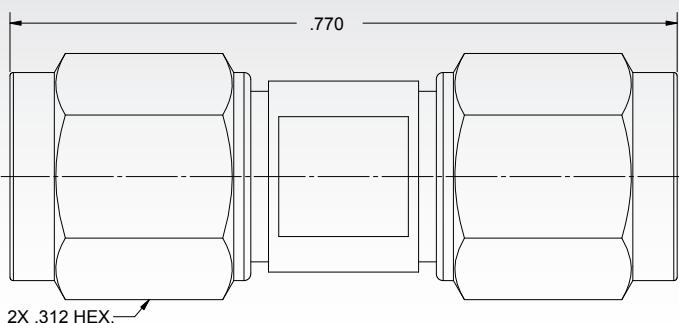
1.85mm Male to Female Adapter



P/N

SF1133-6010

1.85mm Male to 2.4mm Male Adapter

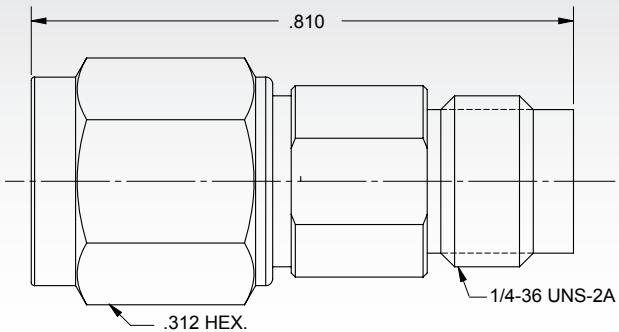


P/N

SF1133-6006

1.85MM SERIES

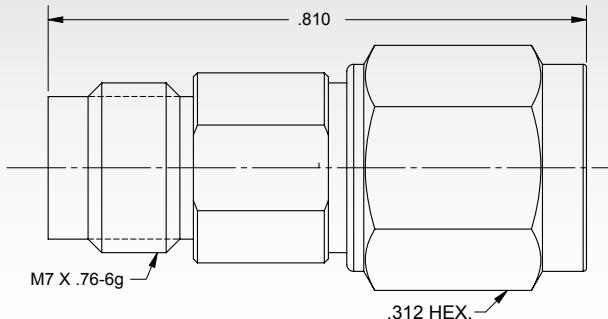
1.85mm Male to 2.4mm Female Adapter



P/N

SF1133-6004

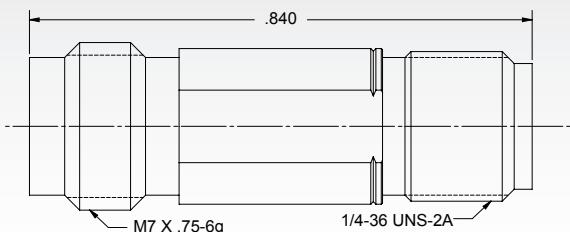
1.85mm Female to 2.4mm Male Adapter



P/N

SF1133-6005

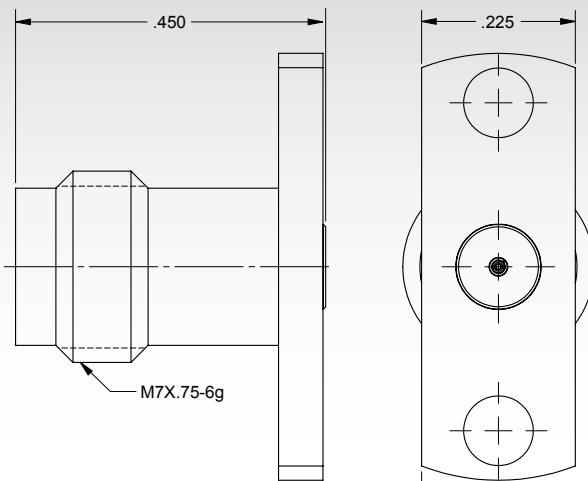
1.85mm Female to 2.4mm Female Adapter



P/N

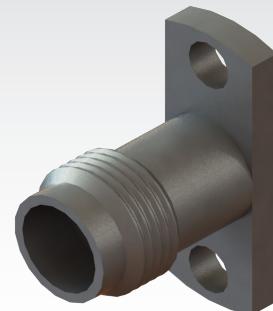
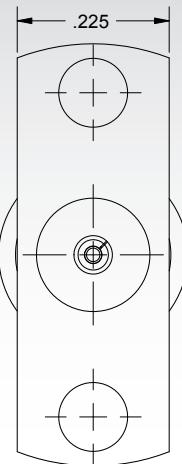
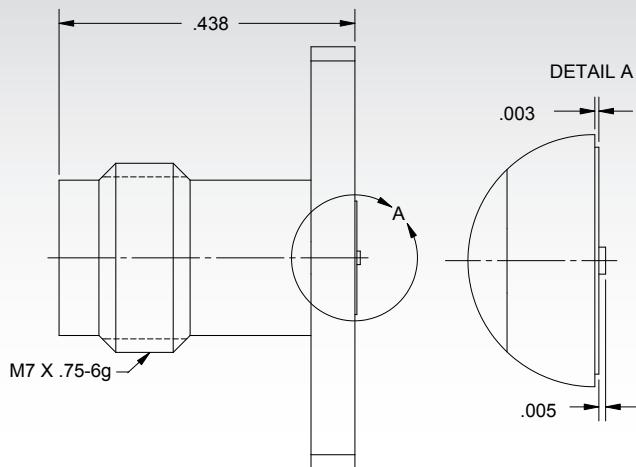
SF1133-6003

Female Flange Mount Connector, 2 Hole (Accepts Ø.009" Pin)



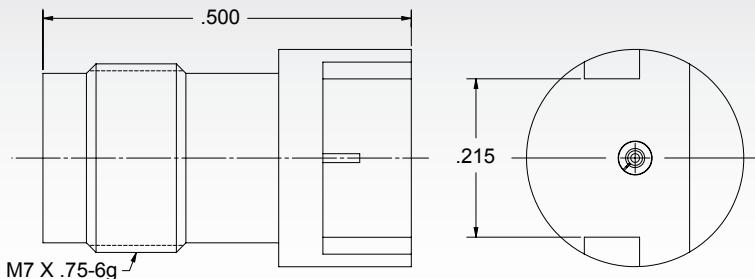
P/N
SF3321-60003

Female Flange Compression Mount Connector, 2 Hole



P/N
SF3321-60011

Female Edge Launch Connector (.062" PCB Thickness)



P/N
3321-60001

Contact SV directly to access our database of recommended PCB layouts