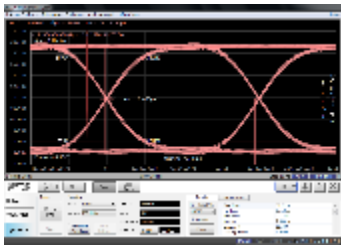
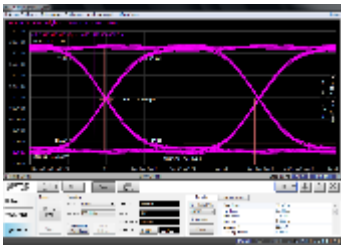


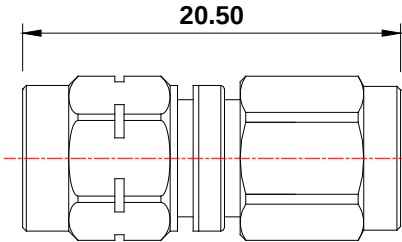
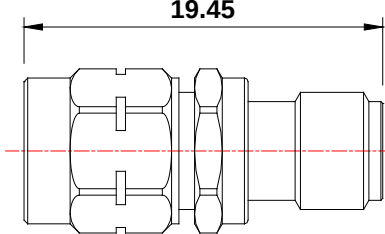
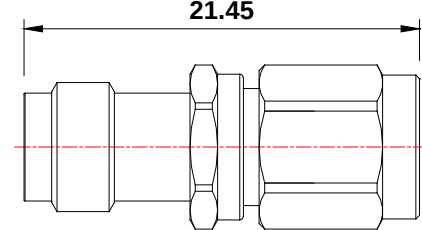
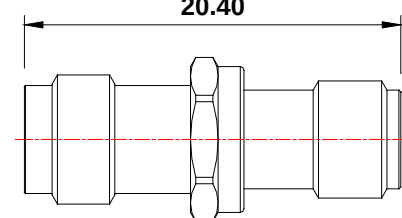
SENSORVIEW Phase Matched adapter meets MIL STD 348. we are manufacturing a wide range of adapters within / between series. Matched adapters have the same nominal connector mating reference plane to reference plane length.

The connector mating plane is the plane along which two mating connector outer conductors come together. All adapter's phase difference range is ± 2 degree.



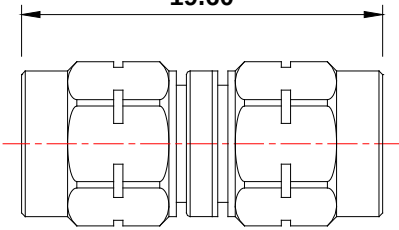
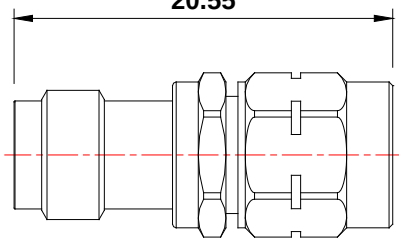
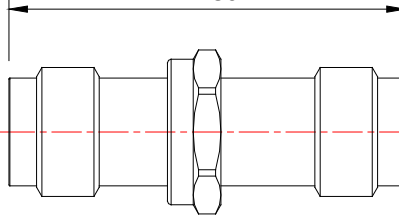
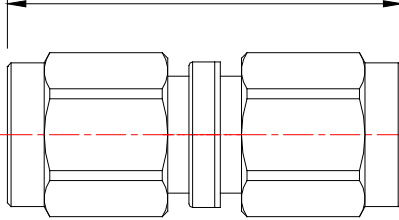
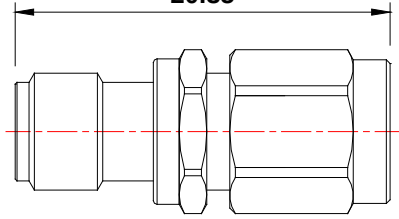
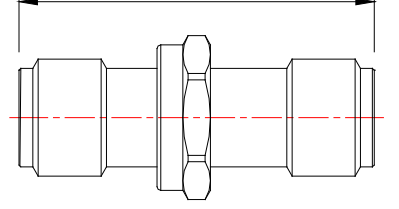
Unit [mm]

Between Series

Part No. Description	Drawing	Specification
2P4(M)_ST_K(M)01 2.4mm(m) to 2.92mm(m) 		Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.
2P4(M)_ST_K(F)01 2.4mm(m) to 2.92mm(f) 		Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.
2P4(F)_ST_K(M)01 2.4mm(f) to 2.92mm(m) 		Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.
2P4(F)_ST_K(F)01 2.4mm(f) to 2.92mm(f) 		Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.

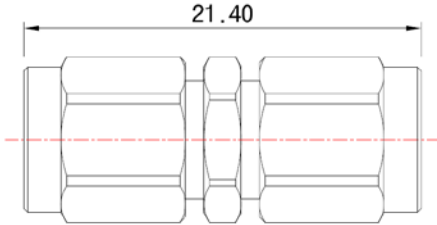
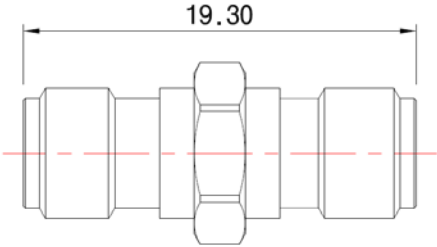
Unit [mm]

In Series

Part No. Description	Drawing	Specification
2P4(M)_ST_2P4(M)01 2.4mm(m) to 2.4mm(m) 	19.60 	Frequency : DC ~ 50GHz VSWR : 1.25 Max Impedance : 50 ohm Insertion loss : 0.25dB Max @ 50GHz Mating cycle : 500 times min.
2P4(F)_ST_2P4(M)01 2.4mm(f) to 2.4mm(m) 	20.55 	Frequency : DC ~ 50GHz VSWR : 1.25 Max Impedance : 50 ohm Insertion loss : 0.25dB Max @ 50GHz Mating cycle : 500 times min.
2P4(F)_ST_2P4(F)01 2.4mm(f) to 2.4mm(f) 	21.50 	Frequency : DC ~ 50GHz VSWR : 1.25 Max Impedance : 50 ohm Insertion loss : 0.25dB Max @ 50GHz Mating cycle : 500 times min.
K(M)_ST_K(M)01 2.92mm(m) to 2.92mm(m) 	21.40 	Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.
K(F)_ST_K(M)01 2.92mm(f) to 2.92mm(m) 	20.35 	Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.
K(F)_ST_K(F)01 2.92mm(f) to 2.92mm(f) 	19.30 	Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.15dB Max @ 40GHz Mating cycle : 500 times min.

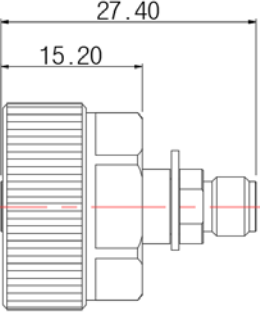
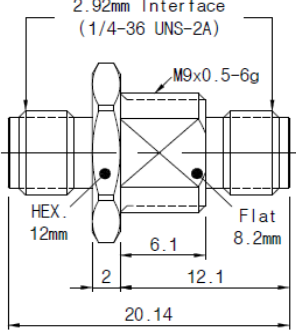
Unit [mm]

In Series

Part No. Description	Drawing	Specification
SMA(M)_ST_SMA(M)01 SMA(m) to SMA(m) 		Frequency : DC ~ 18GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.12 dB Max @ 18GHz Mating cycle : 500 times min.
SMA(F)_ST_SMA(F)01 SMA(f) to SMA(f) 		Frequency : DC ~ 18GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.12 dB Max @ 18GHz Mating cycle : 500 times min.

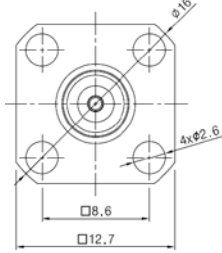
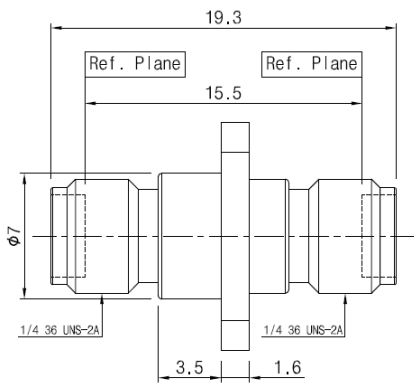
Unit [mm]

NMD & Bulkhead

Part No. Description	Drawing	Specification
K(F)_NM_K(F)01 K(f) to K(f) 		Frequency : DC ~ 40GHz VSWR : 1.20 Max Impedance : 50 ohm Insertion loss : 0.26 dB Max @ 40GHz Mating cycle : 500 times min.
K(F)_BH_K(F)02 K(f) to K(f) 		Frequency : DC ~ 40GHz VSWR : 1.15 Max Impedance : 50 ohm Insertion loss : 0.20 dB Max @ 40GHz Mating cycle : 500 times min.

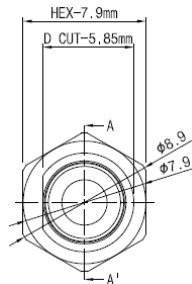
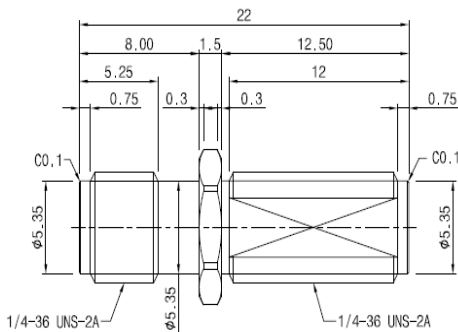
K(F)_4H_K(F)01

K(f) to K(f)



K(F)_BH_K(F)01

K(f) to K(f)



SENSORVIEW 2.92mm & 2.4mm connectors are precision connectors for microwave applications up to 40 & 50GHz.

2.92mm is compatible with series SMA and 3.5mm connectors.

The special insulator design is excellent for high frequency connection with good stability.

These connectors provide a high ingress protection level against chemicals, fluids, dust.

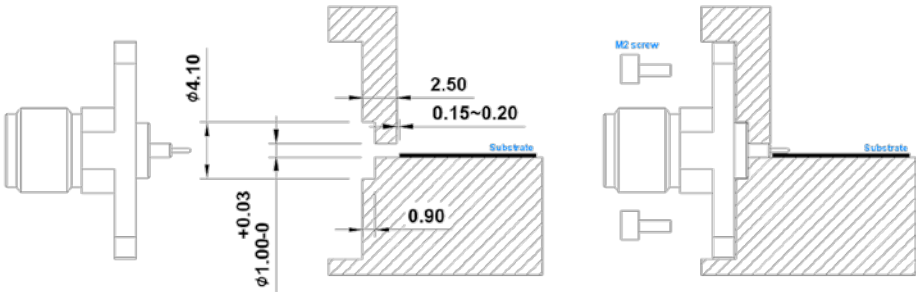
Characteristics for 40GHz Connector

Electrical Characteristics		Environmental Characteristics	
Impedance	50 Ω	Temperature range	-55℃~125℃
Frequency range	DC ~ 40GHz	Thermal shock	MIL STD 202, method 107, Condition B
VSWR max.	< 1.32	Vibration	MIL STD 202, method 204, Condition D
Insertion Loss	0.03 X √F[GHz]	Corrosion	MIL STD 202, method 101, Condition B
RF Leakage	-90 dB max	Moisture resistance	MIL STD 202, method 106
Voltage rating	250 V rms, 50Hz	Shock	MIL STD 202, method 213, Condition I

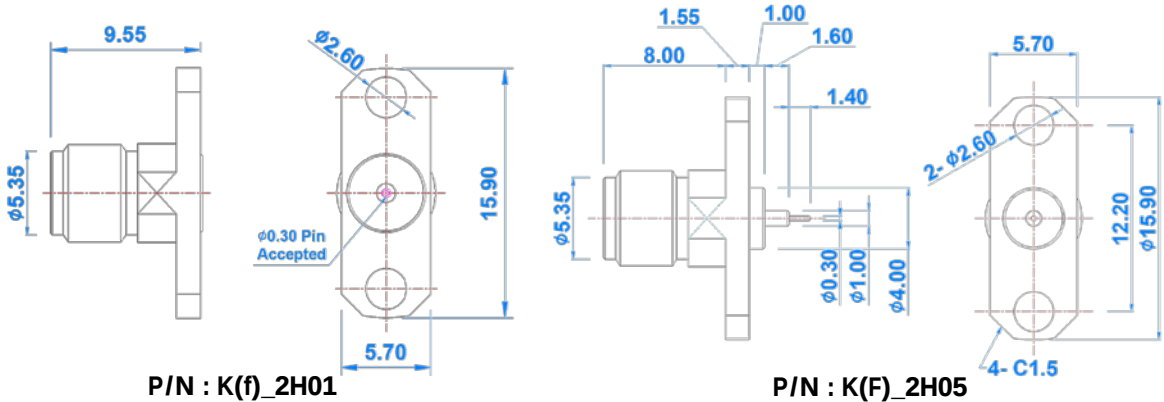
Materials and Plating		
	Material	Plating
Body	Stainless steel	Passivated
Center contact	BeCu	Gold on Nickel
Insulator	ULTEM / PTFE	-

Mechanical Characteristics	
Durability	500 mating
Engage / Disengage	< 23 N · cm
Mating torque	80 ~ 110 N · cm
Contact captivation	22 N

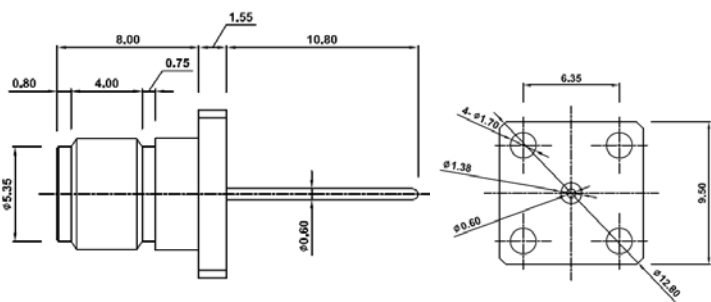
Installation for 40GHz Connector



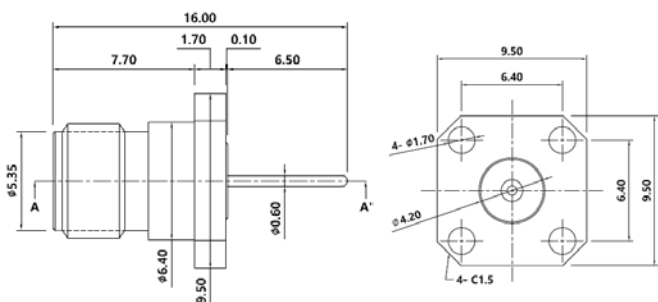
40GHz Connector Drawing



40GHz Connector Drawing



P/N : K(F)_4H01



P/N : K(F)_4H02

Characteristics for 50GHz Connector

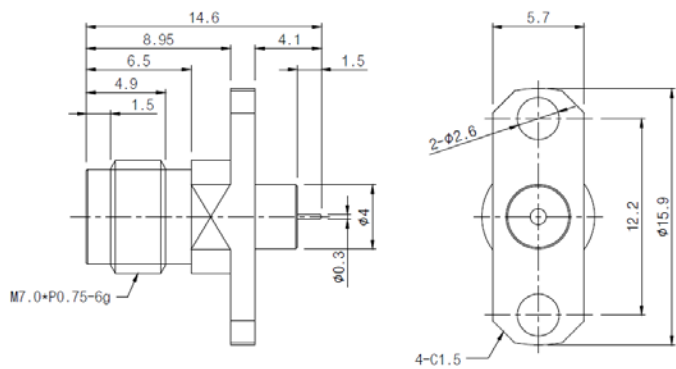
Electrical Characteristics	
Impedance	50 Ω
Frequency range	DC ~ 50GHz
VSWR max.	< 1.20
Insertion Loss	-0.2dB Max
RF Leakage	-90 dB max.
Voltage rating	250 V rms, 50Hz

Environmental Characteristics	
Temperature range	-55℃~125℃
Thermal shock	MIL STD 202, method 107, Condition B
Vibration	MIL STD 202, method 204, Condition D
Corrosion	MIL STD 202, method 101, Condition B
Moisture resistance	MIL STD 202, method 106
Shock	MIL STD 202, method 213, Condition I

Materials and Plating		
	Material	Plating
Body	Stainless steel	Passivated
Center contact	BeCu	Gold on Nickel
Insulator	ULTEM / PTFE	-

Mechanical Characteristics	
Durability	500 mating
Engage / Disengage	< 23 N · cm
Mating torque	80 ~ 110 N · cm
Contact captivation	22 N

50GHz Connector Drawing



P/N : 2P4(F)_2H01

SENSORVIEW SMP series meets MIL STD 348. SMP connectors are miniaturized push-on Interconnects commonly used in high density, blind-mate systems that can operate up to 40 GHz. SMP connectors are offered in a high frequency 40 GHz version as well as a lower frequency 12 GHz version and are also available.

Characteristics

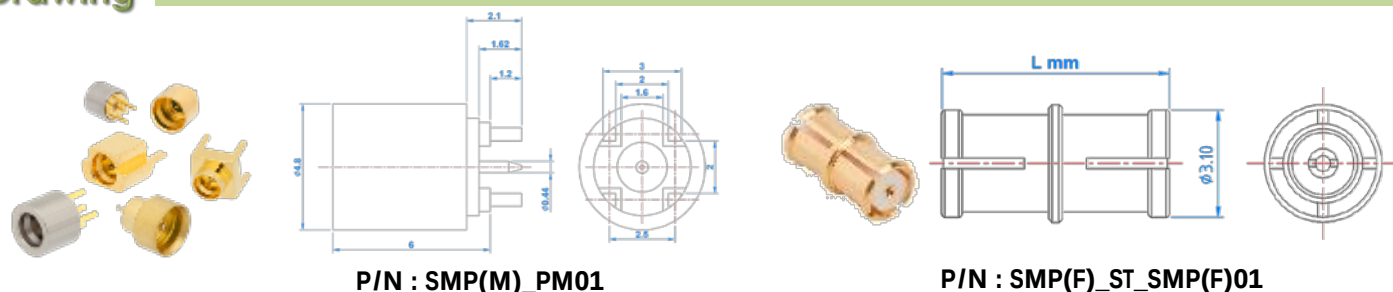
Electrical Characteristics		
Impedance	50 Ω	
Frequency range	DC ~ 40GHz	
VSWR max.	straight	Right angle
	<1.5	<1.7
Insertion Loss	0.15 X √F[GHz]	
RF Leakage	-70 dB @ 6GHz	
Voltage rating	335 V rms, 50Hz	

Environmental Characteristics	
Temperature range	-55°C~125°C
Thermal shock	MIL STD 202, method 107, Condition B
Vibration	MIL STD 202, method 204, Condition D
Moisture resistance	MIL STD 202, method 106
Shock	MIL STD 202, method 213, Condition I

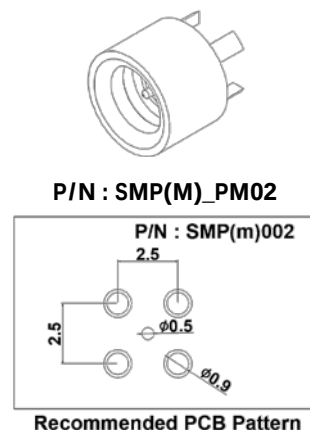
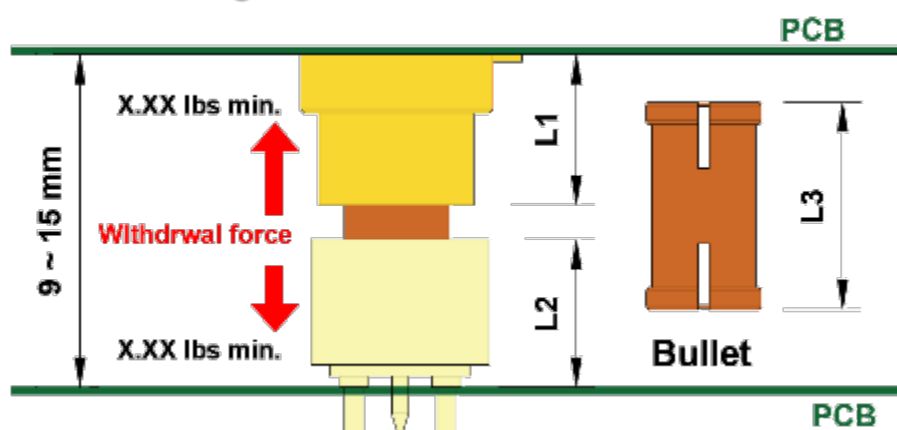
Materials and Plating		
	Material	Plating
Receptacle body	Brass / Stainless steel	Gold / Passivated
Bullet body	BeCu	Gold
Male contact	Brass	Gold
Female contact	BeCu	Gold
Shrouds	Stainless steel	passivated
Insulator	ULTEM / PTFE	-

Mechanical Characteristics			
	Smooth bore	Limited detent	Full detent
Durability(mating)	1000	500	100
Engage	< 9 N	< 45 N	< 68 N
Disengage	> 2 N	> 9 N	> 22 N
Axial misalignment	± 0.3mm		
Radial misalignment	4°		

Drawing



Customized design



SENSORVIEW SMA series meets MIL STD 348. SMA connectors are constructed in male or female gender in standard polarity, reverse polarity (RPSMA / RP-SMA) with 50 Ohm impedance. Types of SMA are available in straight, right angle as well as, press in, bulkhead, 2 hole panel, 4 hole panel, End Launch, edge mount etc.

Characteristics

Electrical Characteristics		Environmental Characteristics	
Impedance	50 Ω	Temperature range	-55°C~125°C
Frequency range	DC ~ 18GHz	Thermal shock	MIL STD 202, method 107, Condition B
VSWR max.	< 1.22	Vibration	MIL STD 202, method 204, Condition D
Insertion Loss	0.05 X √F[GHz]	Corrosion	MIL STD 202, method 101, Condition B
RF Leakage	-90 dB max	Moisture resistance	MIL STD 202, method 106
Voltage rating	350 V rms, sea level	Shock	MIL STD 202, method 213, Condition I

Materials and Plating			Mechanical Characteristics	
	Material	Plating	Durability	500 mating
Body	Brass	Gold on Nickel	Engage / Disengage	< 23 N cm
Center contact	BeCu	Gold on Nickel	Mating torque	80 ~ 110 N cm
Insulator	PTFE	-	Coupling nut retention	270 N

Pictures



End Launch SMA



P/N : SMA(F)_ELC01

Specifications :

Characteristic Impedance

Operating Frequency

Max. VSWR

Working Voltage

Engage/Disengage Torque

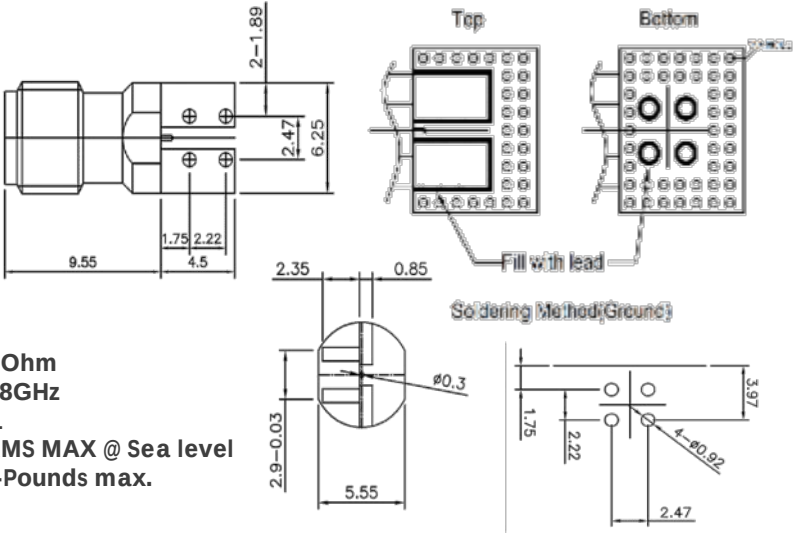
50 ± 1 Ohm

DC ~ 18GHz

1.25 : 1

170 VRMS MAX @ Sea level

2 Inch-Pounds max.



Technical drawing of SMA(F)_ELC01 showing side, top, and bottom views with dimensions.

SENSORVIEW N series meets MIL STD 348. Type N frequency range extends to 18GHz. The screw type coupling mechanism provides a reliable connection. Many types of N are available in straight, right angle as well as, press in, bulkhead, 2 hole panel, 4 hole panel. Type N connectors are offered in a high frequency 18 GHz version as well as a lower frequency 12 GHz version and are also available.

Characteristics

Electrical Characteristics	
Impedance	50 Ω
Frequency range	DC ~ 18GHz
VSWR max.	< 1.22
Insertion Loss	0.04 X √F[GHz]
RF Leakage	-90 dB max
Voltage rating	1000 V rms, 50 Hz

Environmental Characteristics	
Temperature range	-55°C~125°C
Thermal shock	MIL STD 202, method 107, Condition B
Vibration	MIL STD 202, method 204, Condition D
Corrosion	MIL STD 202, method 101, Condition B
Moisture resistance	MIL STD 202, method 106
Shock	MIL STD 202, method 213, Condition I

Materials and Plating		
	Material	Plating
Body	Brass / Stainless steel	Gold / passivated
Center contact	Brass, BeCu (female)	Gold on Nickel
Insulator	ULTEM / PTFE	-

Mechanical Characteristics	
Durability	500 mating
Engage / Disengage	< 6.6 N · cm
Mating torque	150 ~ 170 N · cm
Coupling nut retention	450 N

Pictures



P/N : N(M)_PCBM01



P/N : N(F)_PCBM01



P/N : N(F)_PCBM02



P/N : N(F)_PCBM03



P/N : N(F)_RA_PCBM01



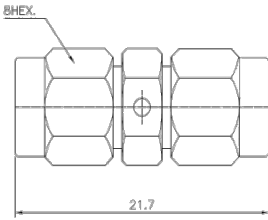
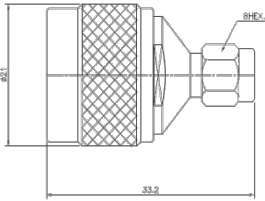
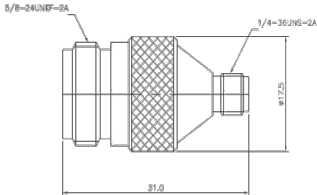
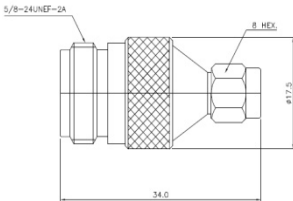
P/N : N(F)_WT_PCBM01

SENSORVIEW all adapter meets MIL STD 348. we are manufacturing a wide range of adapters within / between series.

Line up

Frequency [GHz]	Interface	VSWR Max.
DC ~ 50GHz	2.4mm, SMPM	<1.25
DC ~ 40GHz	2.92mm (K), SMP	<1.25
DC ~ 26.5GHz	HFSMA®, SMP	<1.22
DC ~ 18GHz	SMA, N	<1.2
DC ~ 6GHz	MCX, MMCX, etc.	<1.2

General Series

	Picture	Drawing	Specification
SMA(m) to SMA(m)			Frequency : DC ~ 18GHz VSWR : 1.20 Max Impedance : 50 ohm DWV : 1200V rms Max Mating cycle : 500 times min
N(m) to SMA(m)			Frequency : DC ~ 6GHz VSWR : 1.20 Max Impedance : 50 ohm DWV : 1200V rms Max Mating cycle : 500 times min
N(f) to SMA(f)			Frequency : DC ~ 8GHz VSWR : 1.20 Max Impedance : 50 ohm DWV : 1200V rms Max Mating cycle : 500 times min
N(f) to SMA(m)			Frequency : DC ~ 9GHz VSWR : 1.20 Max Impedance : 50 ohm DWV : 1200V rms Max Mating cycle : 500 times min

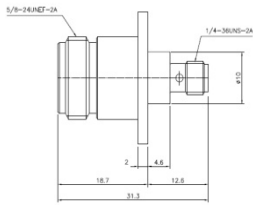
General Series

Picture

Drawing

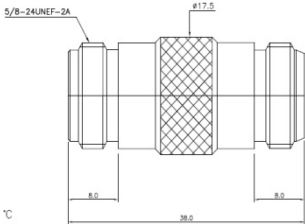
Specification

N(f) to SMA(f)



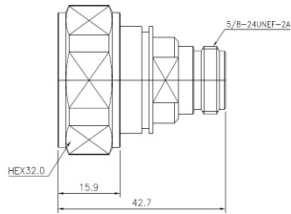
Frequency : DC ~ 9GHz
VSWR : 1.20 Max
Impedance : 50 ohm
DWV : 1200V rms Max
Mating cycle : 500 times min

N(f) to N (f)



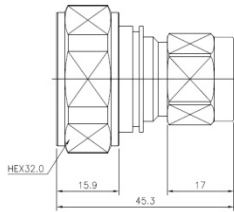
Frequency : DC ~ 11GHz
VSWR : 1.25 Max
Impedance : 50 ohm
DWV : 2500V rms Max
Mating cycle : 500 times min

DIN(m) to N(f)



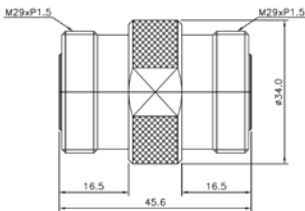
Frequency : DC ~ 6GHz
VSWR : 1.20 Max
Impedance : 50 ohm
DWV : 2500V rms Max
Mating cycle : 500 times min

DIN(m) to N(m)



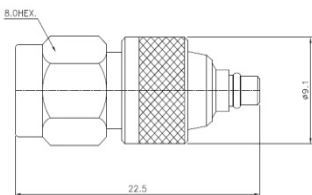
Frequency : DC ~ 6GHz
VSWR : 1.20 Max
Impedance : 50 ohm
DWV : 2500V rms Max
Mating cycle : 500 times min

DIN(f) to DIN(f)



Frequency : DC ~ 6GHz
VSWR : 1.20 Max
Impedance : 50 ohm
DWV : 2500V rms Max
Mating cycle : 500 times min

SMA(m) to MMCX(m)



Frequency : DC ~ 6GHz
VSWR : 1.2 Max
Impedance : 50 ohm
DWV : 1000V rms Max
Mating cycle : 500 times min