Tone Spread
Solutions for Wireless Signal

Tone Spread Technology

RF Coaxial Adapter

- ***High Quality***
- ***Low PIM***
- ***Low VSWR***
- ***Wide Frequency Band (DC~3000MHz,DC~6000MHz)***
- ***N type,7/16(DIN) type,4.3/10 MINI DIN type and 4.1/9.5 MINI DIN type***

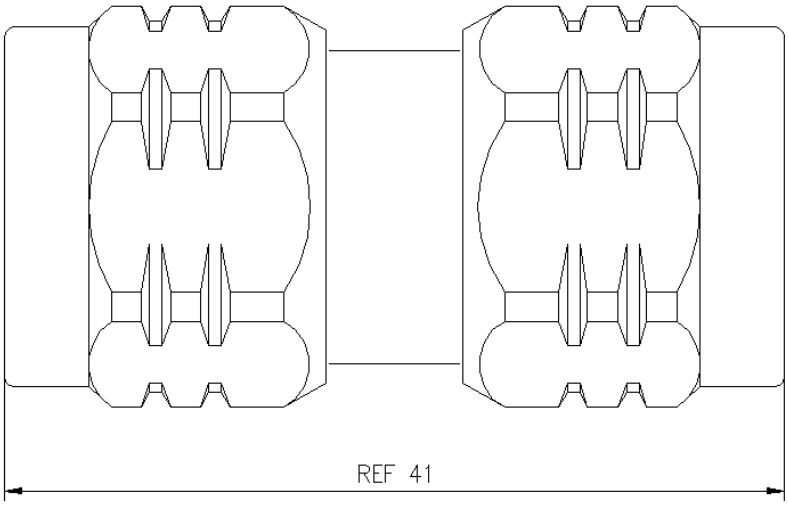
2020.04

Specifications of N Male to N Male Adapter:

1. N/M-N/M adapter is in accordance with IEC60169-16: 1982
2. N Male interface screw thread: 5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2°C Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤2 mΩ
	Outer conductor	≤0.5 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.06(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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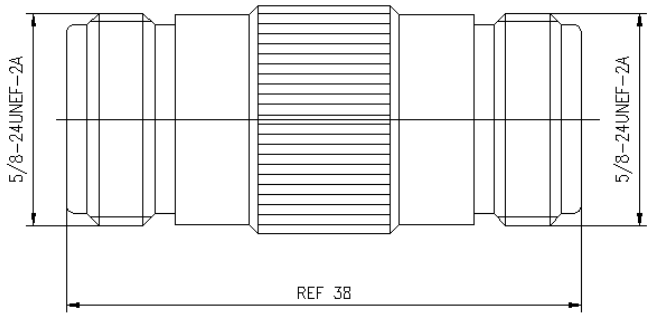
N FEMALE TO N FEMALE RF ADAPTER

Specifications of N Female to N Female Adapter:

1. N/F-N/F adapter is in accordance with IEC60169-16: 1982
2. N Female interface screw thread: 5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2℃ Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤2 mΩ
	Outer conductor	≤0.5 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.06(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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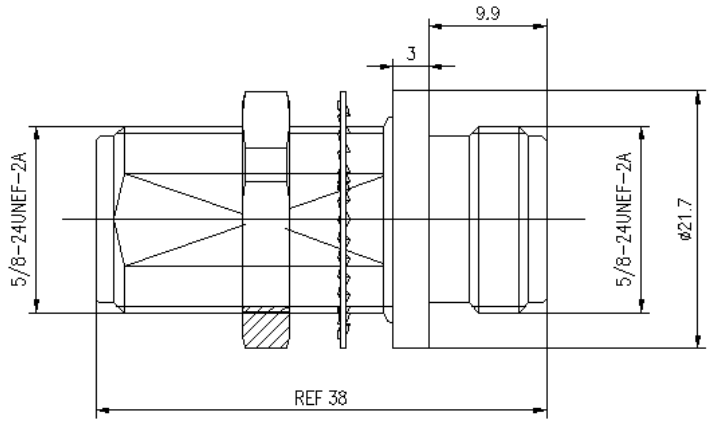
N FEMALE TO N FEMALE(BH) RF ADAPTER

Specifications of N Female to N Female Bulkhead Adapter:

1. N/F-N/F Bulkhead adapter is in accordance with IEC60169-16: 1982
2. N Female interface screw thread: 5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2℃ Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤2 mΩ
	Outer conductor	≤0.5 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.06(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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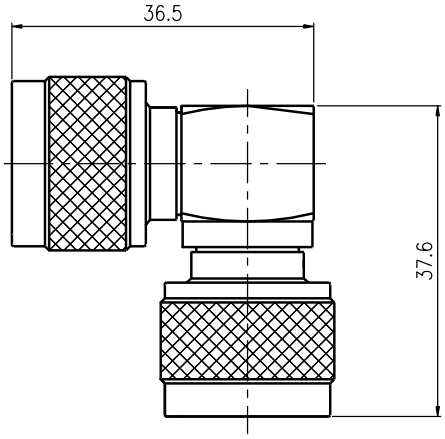
N MALE TO N MALE(RA) RF ADAPTER

Specifications of N Male to N Male Adapter (Right Angle)

1. N/M-N/M(RA) adapter is in accordance with IEC60169-16: 1982
2. N Male interface screw thread: 5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2°C）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤2 mΩ
	Outer conductor	≤0.5 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.06(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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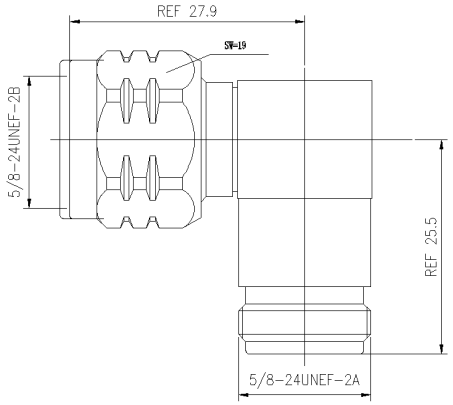
Specifications of N Male to N Female Adapter(Right Angle)

1. N/M-N/F(RA) adapter is in accordance with IEC60169-16: 1982
2. N Male/Female interface screw thread: 5/8-24UNEF-2B , N Female interface screw thread: 5/8-24UNEF-2A
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2°C）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤2 mΩ
	Outer conductor	≤0.5 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.06(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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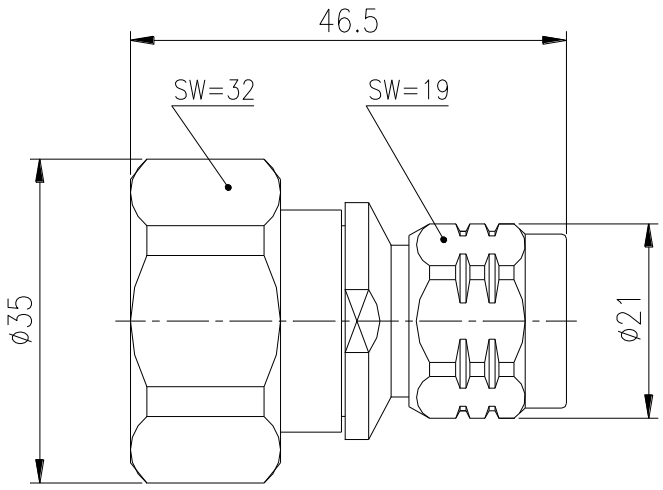
Specifications of 7/16(DIN) Male to N Male Adapter

1. 7/16(DIN)M-N/M adapter is in accordance with IEC60169-16: 1982
2. DIN interface screw thread:M29x1.5 ,N interface screw thread:5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2°C）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤1.4 mΩ
	Outer conductor	≤0.45 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.08(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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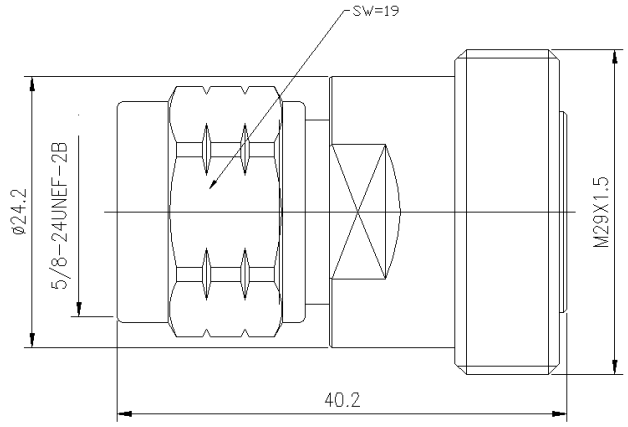
DIN FEMALE TO N MALE RF ADAPTER

Specifications of 7/16(DIN) Femaale to N Male Adapter

1. 7/16(DIN)F-N/M adapter is in accordance with IEC60169-16: 1982
2. DIN interface screw thread:M29x1.5 ,N interface screw thread:5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2°C）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤1.4 mΩ
	Outer conductor	≤0.45 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.08(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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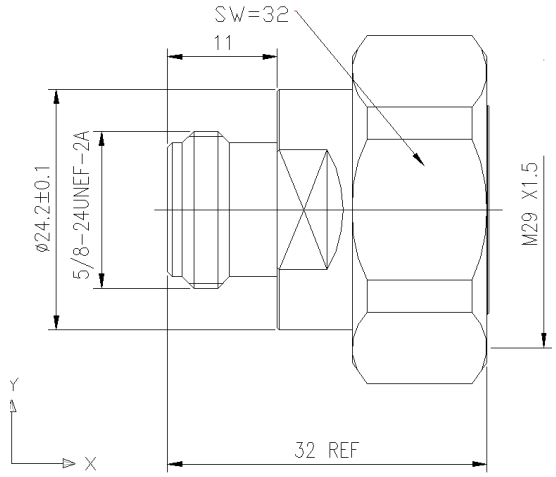
Specifications of 7/16(DIN) Male to N Female Adapter

1. 7/16(DIN)M-N/F adapter is in accordance with IEC60169-16: 1982
2. DIN interface screw thread:M29x1.5 ,N interface screw thread:5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ： 90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤1.4 mΩ
	Outer conductor	≤0.45 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.08(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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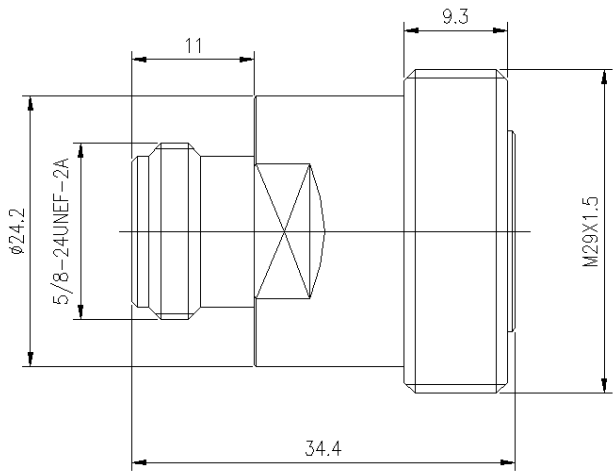
DIN FEMALE TO N FEMALE RF ADAPTER

Specifications of 7/16(DIN) Female to N Female Adapter

1. 7/16(DIN)F-N/F adapter is in accordance with IEC60169-16: 1982
2. DIN interface screw thread:M29x1.5 ,N interface screw thread:5/8-24UNEF-2B
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	3μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-55~+155°, Relative moisture ：90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Contact resistance (mΩ)	Inner conductor	≤1.4 mΩ
	Outer conductor	≤0.45 mΩ
Insulation resistance (MΩ)		≥5000MΩ
Withstanding voltage AC(V/min)		≥2500V
VSWR(0～2GHz)		≤1.08(0~2GHz)
		≤1.10(0~3GHz)
Impedance(Ω)		50
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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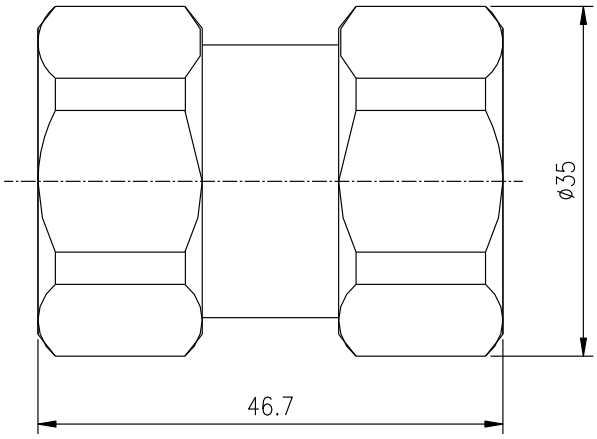
Specifications of 7/16(DIN) Male to 7/16(DIN) Male Adapter

1. DIN/M-DIN/M Adapter is in accordance with IEC60169-16: 1975
2. Interface screw thread: M29*1.5
3. Material and plating:

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	2μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-40~+85° Relative moisture ： 90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa.
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Impedance(Ω)		50
Contact resistance (mΩ)	Inner conductor	≤0.8 mΩ
	Outer conductor	≤0.4 mΩ
Insulation resistance(MΩ)		≥10000MΩ
Withstanding voltage AC(V/min)		≥4000V
VSWR(0～2GHz)		≤1.08(0~2GHz)
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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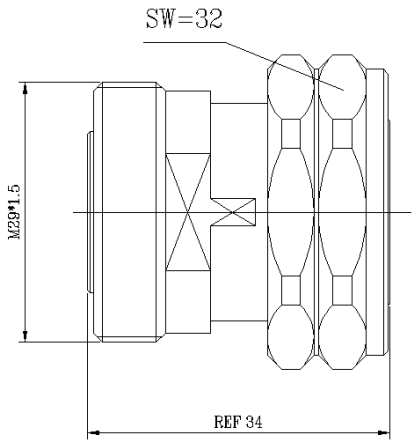
DIN MALE TO DIN FEMALE RF ADAPTER

Specifications of 7/16(DIN) Male to 7/16(DIN) Female Adapter

1. DIN/M-DIN/F Adapter is in accordance with IEC60169-16: 1975
2. Interface screw thread: M29*1.5
3. Material and plating

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	2μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-40~+85° Relative moisture ： 90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Impedance(Ω)		50
Contact resistance (mΩ)	Inner conductor	≤0.8 mΩ
	Outer conductor	≤0.4 mΩ
Insulation resistance(MΩ)		≥10000MΩ
Withstanding voltage AC(V/min)		≥4000V
VSWR(0～2GHz)		≤1.08(0~2GHz)
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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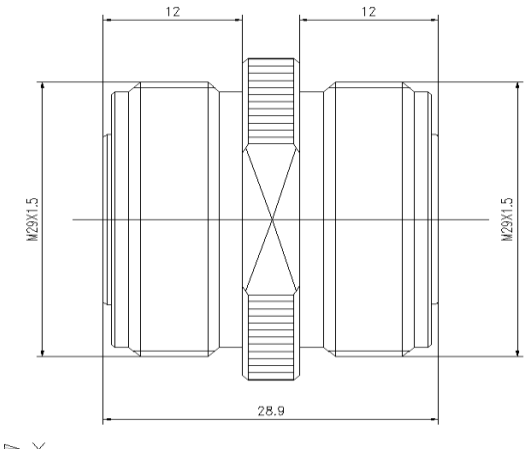
DIN FEMALE TO DIN FEMALE RF ADAPTER

Specifications of 7/16(DIN) Female to 7/16(DIN) Female Adapter

1. DIN/F-DIN/F Adapter is in accordance with IEC60169-16: 1975
2. Interface screw thread: M29*1.5
3. Material and plating

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	2μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-40~+85° Relative moisture ： 90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Impedance(Ω)		50
Contact resistance (mΩ)	Inner conductor	≤0.8 mΩ
	Outer conductor	≤0.4 mΩ
Insulation resistance(MΩ)		≥10000MΩ
Withstanding voltage AC(V/min)		≥4000V
VSWR(0～2GHz)		≤1.08(0~2GHz)
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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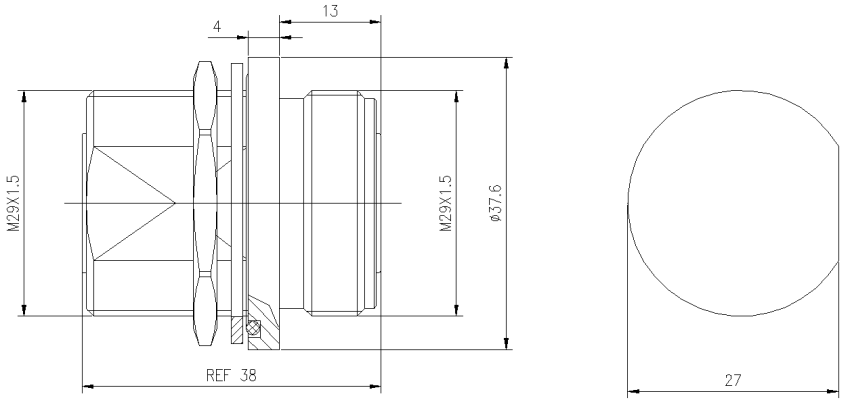
DIN FEMALE TO DIN FEMALE(BH) RF ADAPTER

Specifications of Bulkhead 7/16(DIN) Female to 7/16(DIN) Female Adapter

1. DIN/F-DIN/F Adapter is in accordance with IEC60169-16: 1975
2. Interface screw thread: M29*1.5
3. Material and plating

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	2μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-40~+85° Relative moisture ： 90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~3GHz
Impedance(Ω)		50
Contact resistance (mΩ)	Inner conductor	≤0.8 mΩ
	Outer conductor	≤0.4 mΩ
Insulation resistance(MΩ)		≥10000MΩ
Withstanding voltage AC(V/min)		≥4000V
VSWR(0～2GHz)		≤1.08(0~2GHz)
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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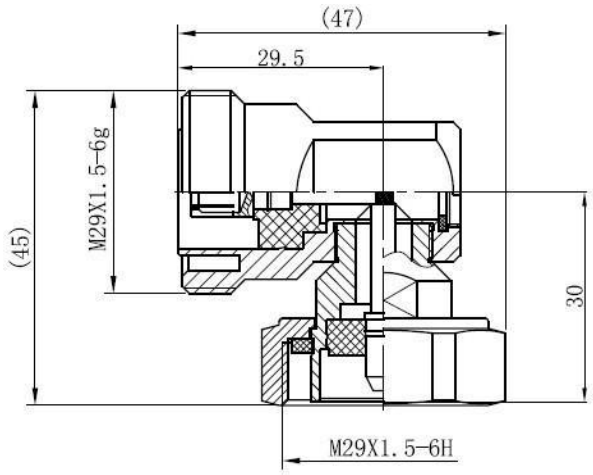
DIN MALE TO DIN FEMALE(RA) RF ADAPTER

Specifications of Bulkhead 7/16(DIN) Male to 7/16(DIN) Female Right Angle Adapter

1. DIN/M-DIN/F(RA) Adapter is in accordance with IEC60169-16: 1975
2. Interface screw thread: M29*1.5
3. Material and plating

Name of part	Material	Plating	Thickness of plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	2μ
Insulator	PTEF (SFX-1)		

4. Working environment：Working temperature：-40~+85° Relative moisture ： 90％~95％（Temperature: 40±2℃）
   Atmospheric pressure: (70~106)Kpa
5. Dimensions:



6. Mechanical characteristics:

Frequency range		0~7.5GHz
Impedance(Ω)		50
Contact resistance (mΩ)	Inner conductor	≤0.8 mΩ
	Outer conductor	≤0.4 mΩ
Dielectric Resistance		≥500MΩ
PIM		<-155dBc@2X43dBm
Withstanding voltage AC(V/min)		≥4000V
VSWR(0～3GHz)		≤1.10(0~3GHz)
Durability		500 Cycles

7. When results tested by different analyzers are different should adopt the HP testing device as criteria.

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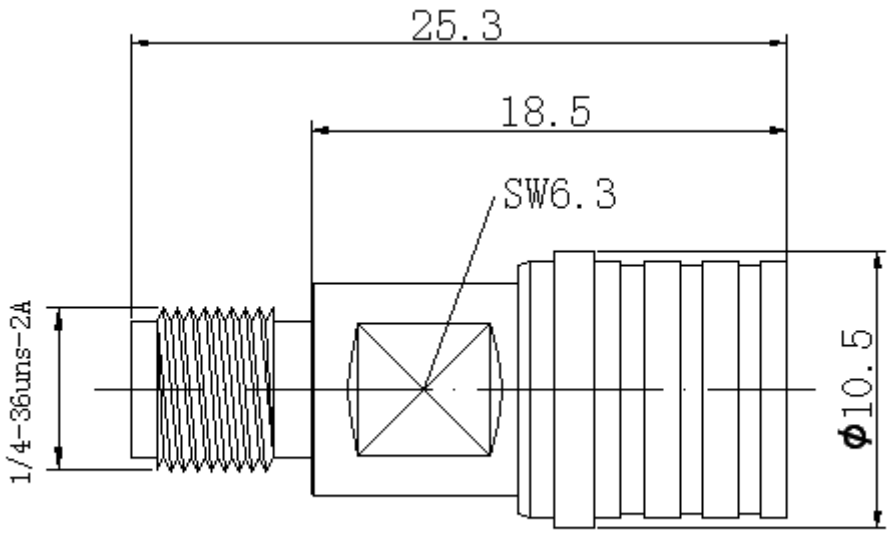
Specifications of QMA Male to SMA Female RF Adapter

Mechanical characteristics:

Item	Specification
Frequency range	0~8.5GHz
Connector	QMA Male to SMA Female
Impedance	50Ω
VSWR(0～3GHz)	≤1.15(0~6GHz)
Dielectric Withstanding voltage	1000 VRMS
Temperature Range	-65~165ºC
Durability	100 Cycles

When results tested by different analyzers are different should adopt the HP testing device as criteria.

Dimensions:



Note: The drawing only for reference, please make the object as the standard.

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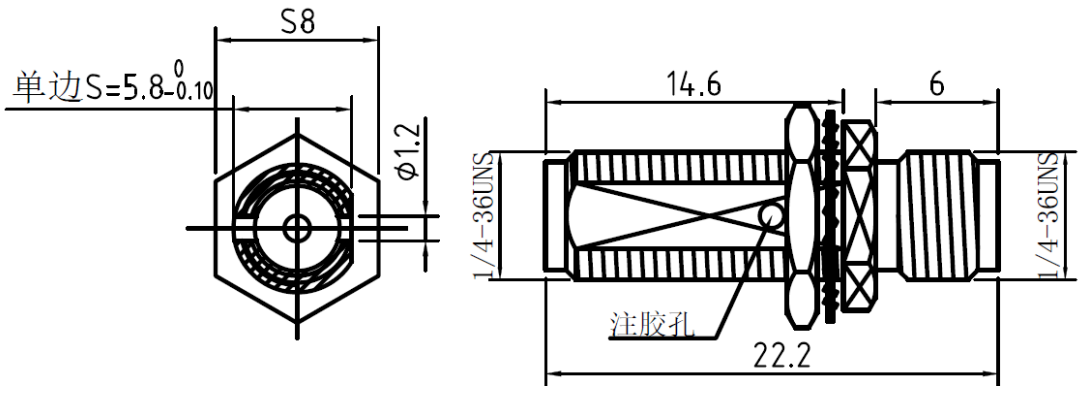
Specifications of SMA Female to SMA Female(Bulkhead) RF Adapter

Mechanical characteristics:

Item	Specification
Model	SMA/F-SMA/F(BH)
Frequency range	0~12.4GHz
Connector	SMA Female to SMA Female(Bulkhead)
Impedance	50Ω
VSWR	≤1.15
Dielectric Withstanding voltage	1000 VRMS
Temperature Range	-40~155ºC
Durability	500 Cycles

When results tested by different analyzers are different should adopt the HP testing device as criteria.

Dimensions:



Note: The drawing only for reference,please make the object as the standard.

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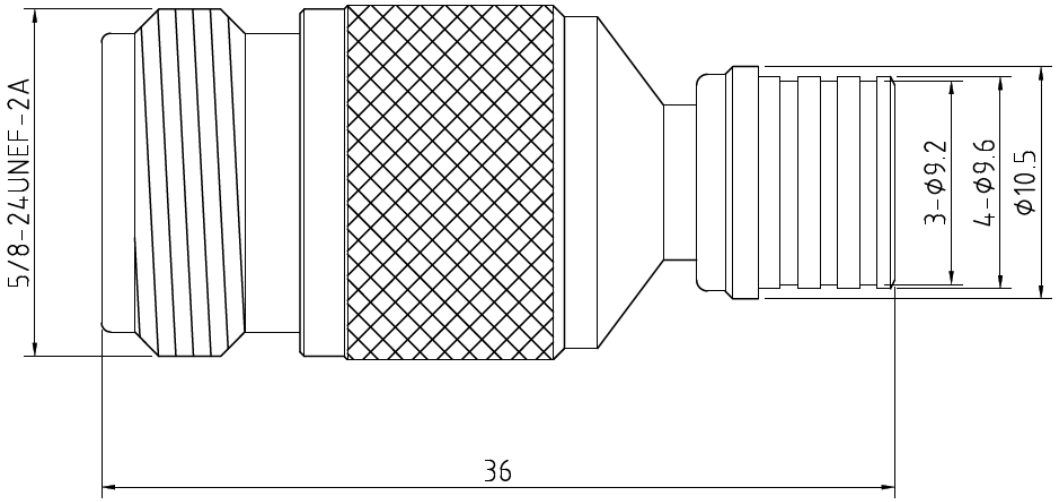
Specifications of low PIM N Female to QMA Male RF Adapter

Mechanical & Electrical Specification:

Model	N/F-QMA/M(LP)
Frequency Range	0~18GHz
VSWR	≤1.10(0~6GHz)
	≤1.15(0~8.5GHz)
	≤1.25(0~18GHz)
PIM (2X43dBm)	<-155dBc (<-165dBc Typical)
Plating	Silvering & Ternary Alloy
Insulator	PTFE
Connector	N Female to QMA Male
Impedance	50Ω
Durability	500 Cycles

When results tested by different analyzers are different should adopt the HP testing device as criteria.

Dimensions:



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NEX10/M-7/16(DIN)/M RF ADAPTER(BH)

Specifications of low PIM NEX10 Male to 7/16(DIN) Male RF Adapter

Mechanical & Electrical Specification:

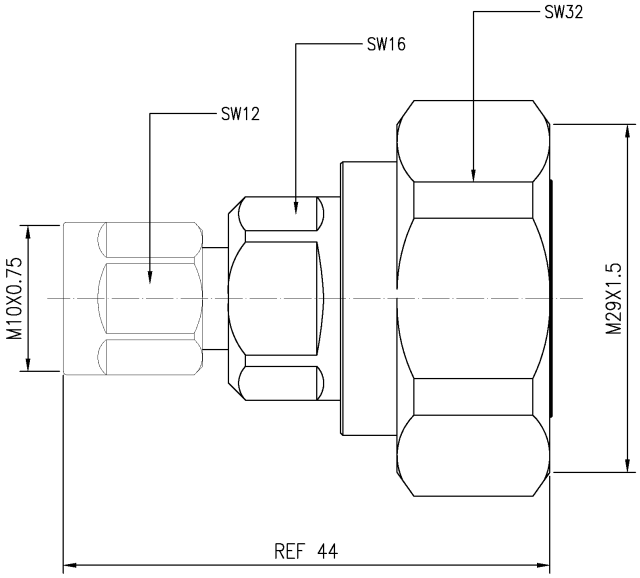
Model	NEX10/M-DIN/M
Frequency Range	0~6GHz
VSWR	≤1.15(0~6GHz)
PIM (2X43dBm)	<-153dBc (<-165dBc Typical)
Plating	Silvering & Ternary Alloy
Insulator	PTFE
Connector	NEX10 Male to 7/16(DIN) Male
Impedance	50Ω
Durability	500 Cycles

When results tested by different analyzers are different should adopt the HP testing device as criteria.

Material & Plating:

Name of part	Material	Plating	Thickness of Plating
Shell	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2~3μ
Out conductor	Brass (HPb59-1)	Ternary Alloy or Silver Plated	2~3μ
Connecting nut	Brass (HPb59-1)	Ternary Alloy or Nickel Plated	2~3μ
Sealing	Silicone rubber		
Probe	Brass (HPb59-1)	Silver Plated	2~3μ
Insulator	PTEF (SFX-1)		

Dimensions:



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