

Coaxial Adapters

Edition 2024



OCENX

Shenzhen Ocen Technology Co., Ltd.

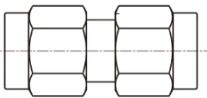
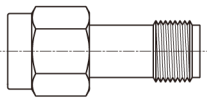
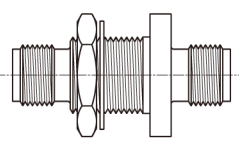
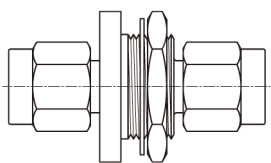
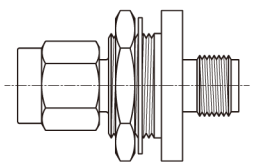
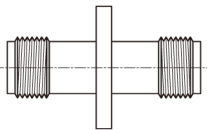
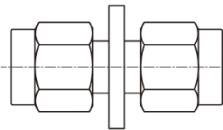
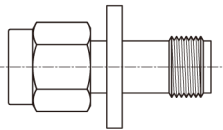
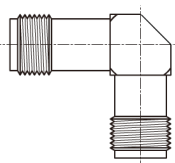
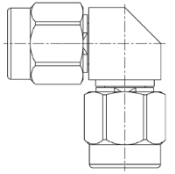
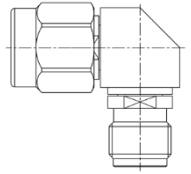
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General information

The coaxial adapter is an essential and important part in test & measurement. There are all kinds of different adapters everywhere, such as instrument, DUT, cable assembly and test accessory, which are used for the adaptation between different RF interfaces.

OCENX offers a series of coaxial adapters with excellent VSWR, long-term stability and outstanding repeatability up to 110 GHz.

Adapter patterns					
31		32		33	
	Straight, female-female		Straight, male-male		Straight, male-female
34		35		36	
	Bulkhead, female-female		Bulkhead, male-male		Bulkhead, male-female
37		38		39	
	Panel, female-female)		Panel, male-male		Panel, male-female
51		52		53	
	L-adapter, female-female		L-adapter, male-male		L-adapter, male-female

1.0 mm series adapters

1.0 mm - 1.0 mm Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 110 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Copper Beryllium Alloy, Gold Plated

Coupling nut: Stainless Steel, Passivated

Insulator: CPS

Operating temperature: 15 °C to 30 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_10-10-50-01_01	1.0 mm female	1.0 mm female	1.35	Straight
32_10-10-50-01_01	1.0 mm male	1.0 mm male	1.35	Straight
33_10-10-50-01_01	1.0 mm male	1.0 mm female	1.35	Straight

1.0 mm - 1.35 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 90 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Copper Beryllium Alloy, Gold Plated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 85 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_10-135-50-01_01	1.0 mm female	1.35 mm female	1.30	Straight

32_10-135-50-01_01	1.0 mm male	1.35 mm male	1.30	Straight
33_10-135-50-01_01	1.0 mm male	1.35 mm female	1.30	Straight
33_135-10-50-01_01	1.35 mm male	1.0 mm female	1.30	Straight

1.0 mm - 1.85 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 67 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 85 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_10-185-50-51_01	1.0 mm female	1.85 mm female	1.30	Straight
32_10-185-50-51_01	1.0 mm male	1.85 mm male	1.30	Straight
33_10-185-50-51_01	1.0 mm male	1.85 mm female	1.30	Straight
33_185-10-50-51_01	1.85 mm male	1.0 mm female	1.30	Straight

1.35 mm series adapters

1.35 mm - 1.35 mm Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 90 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Copper Beryllium Alloy, Gold Plated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 85 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_135-135-50-01_01	1.35 mm female	1.35 mm female	1.30	Straight
32_135-135-50-01_01	1.35 mm male	1.35 mm male	1.30	Straight
33_135-135-50-01_01	1.35 mm male	1.35 mm female	1.30	Straight

1.35 mm - 1.85 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 67 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 85 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_135-185-50-51_01	1.35 mm female	1.85 mm female	1.30	Straight
32_135-185-50-51_01	1.35 mm male	1.85 mm male	1.30	Straight
33_135-185-50-51_01	1.35 mm male	1.85 mm female	1.30	Straight
33_185-135-50-51_01	1.85 mm male	1.35 mm female	1.30	Straight

1.85 mm series adapters

1.85 mm - 1.85 mm Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 67 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_185-185-50-51_01	1.85 mm female	1.85 mm female	1.25	Straight
32_185-185-50-51_01	1.85 mm male	1.85 mm male	1.25	Straight
33_185-185-50-51_01	1.85 mm male	1.85 mm female	1.25	Straight
34_185-185-50-51_01	1.85 mm female	1.85 mm female	1.30	Bulkhead Mount

1.85 mm - 2.4 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 50 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
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31_185-24-50-51_01	1.85 mm female	2.4 mm female	1.20	Straight
32_185-24-50-51_01	1.85 mm male	2.4 mm male	1.20	Straight
33_185-24-50-51_01	1.85 mm male	2.4 mm female	1.20	Straight
33_24-185-50-51_01	2.4 mm male	1.85 mm female	1.20	Straight

1.85 mm - 2.92 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 40 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_185-292-50-51_01	1.85 mm female	2.92 mm female	1.20	Straight
32_185-292-50-51_01	1.85 mm male	2.92 mm male	1.20	Straight
33_185-292-50-51_01	1.85 mm male	2.92 mm female	1.20	Straight
33_292-185-50-51_01	2.92 mm male	1.85 mm female	1.20	Straight

2.4 mm series adapters

2.4 mm - 2.4 mm Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 50 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_24-24-50-51_01	2.4 mm female	2.4 mm female	1.20	Straight
32_24-24-50-51_01	2.4 mm male	2.4 mm male	1.20	Straight
33_24-24-50-51_01	2.4 mm male	2.4 mm female	1.20	Straight
34_24-24-50-51_01	2.4 mm female	2.4 mm female	1.30	Bulkhead Mount
37_24-24-50-51_01	2.4 mm female	2.4 mm female	1.30	Flange Mount

2.4 mm - 2.92 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 40 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_24-292-50-51_01	2.4 mm female	2.92 mm female	1.15	Straight
32_24-292-50-51_01	2.4 mm male	2.92 mm male	1.15	Straight
33_24-292-50-51_01	2.4 mm male	2.92 mm female	1.15	Straight
33_292-24-50-51_01	2.92 mm male	2.4 mm female	1.15	Straight

2.4 mm - 3.5 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 26.5 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_24-35-50-51_01	2.4 mm female	3.5 mm female	1.15	Straight
32_24-35-50-51_01	2.4 mm male	3.5 mm male	1.15	Straight
33_24-35-50-51_01	2.4 mm male	3.5 mm female	1.15	Straight
33_35-24-50-51_01	3.5 mm male	2.4 mm female	1.15	Straight

2.4 mm - N Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 18 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_24-N-50-51_01	2.4 mm female	N female	1.15	Straight
32_24-N-50-51_01	2.4 mm male	N male	1.15	Straight
33_24-N-50-51_01	2.4 mm male	N female	1.15	Straight
33_N-24-50-51_01	N male	2.4 mm female	1.15	Straight

2.92 mm series adapters

2.92 mm - 2.92 mm Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 40 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_292-292-50-51_01	2.92 mm female	2.92 mm female	1.15	Straight
32_292-292-50-51_01	2.92 mm male	2.92 mm male	1.15	Straight
33_292-292-50-51_01	2.92 mm male	2.92 mm female	1.15	Straight
34_292-292-50-51_01	2.92 mm female	2.92 mm female	1.20	Bulkhead Mount
37_292-292-50-51_01	2.92 mm female	2.92 mm female	1.20	Flange Mount
51_292-292-50-51_01	2.92 mm female	2.92 mm female	1.25	Right Angle
52_292-292-50-51_01	2.92 mm male	2.92 mm male	1.25	Right Angle
53_292-292-50-51_01	2.92 mm male	2.92 mm female	1.25	Right Angle

2.92 mm - 3.5 mm Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 26.5 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_292-35-50-51_01	2.92 mm female	3.5 mm female	1.15	Straight
32_292-35-50-51_01	2.92 mm male	3.5 mm male	1.15	Straight
33_292-35-50-51_01	2.92 mm male	3.5 mm female	1.15	Straight
33_35-292-50-51_01	3.5 mm male	2.92 mm female	1.15	Straight

2.92 mm - N Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 18 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_292-N-50-51_01	2.92 mm female	N female	1.15	Straight
32_292-N-50-51_01	2.92 mm male	N male	1.15	Straight
33_292-N-50-51_01	2.92 mm male	N female	1.15	Straight
33_N-292-50-51_01	N male	2.92 mm female	1.15	Straight

3.5 mm series adapters

3.5 mm - 3.5 mm Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 26.5 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_35-35-50-51_01	3.5 mm female	3.5 mm female	1.15	Straight
32_35-35-50-51_01	3.5 mm male	3.5 mm male	1.15	Straight
33_35-35-50-51_01	3.5 mm male	3.5 mm female	1.15	Straight
34_35-35-50-51_01	3.5 mm female	3.5 mm female	1.20	Bulkhead Mount
37_35-35-50-51_01	3.5 mm female	3.5 mm female	1.20	Flange Mount
51_35-35-50-51_01	3.5 mm female	3.5 mm female	1.25	Right Angle
52_35-35-50-51_01	3.5 mm male	3.5 mm male	1.25	Right Angle
53_35-35-50-51_01	3.5 mm male	3.5 mm female	1.25	Right Angle

SMA series adapters

SMA - SMA Within Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 18 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI & PTFE

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_SMA-SMA-50-51_01	SMA female	SMA female	1.15	Straight
32_SMA-SMA-50-51_01	SMA male	SMA male	1.15	Straight
33_SMA-SMA-50-51_01	SMA male	SMA female	1.15	Straight
34_SMA-SMA-50-51_01	SMA female	SMA female	1.20	Bulkhead Mount
37_SMA-SMA-50-51_01	SMA female	SMA female	1.20	Flange Mount
51_SMA-SMA-50-51_01	SMA female	SMA female	1.25	Right Angle
52_SMA-SMA-50-51_01	SMA male	SMA male	1.25	Right Angle
53_SMA-SMA-50-51_01	SMA male	SMA female	1.25	Right Angle

SMA - N Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 18 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI & PTFE

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_N-SMA-50-51_01	N female	SMA female	1.15	Straight
32_N-SMA-50-51_01	N male	SMA male	1.15	Straight
33_N-SMA-50-51_01	N male	SMA female	1.15	Straight
33_SMA-N-50-51_01	SMA male	N female	1.15	Straight

SMA - BNC Between Series Adapters

Impedance: 50 Ω

Frequency: DC ~ 4 GHz

Centre contact: Copper Beryllium Alloy, Gold Plated

Body: Stainless Steel, Passivated

Coupling nut: Stainless Steel, Passivated

Insulator: PEI & PTFE

Operating temperature: -55 °C to 165 °C

Type	Interface 1	Interface 2	VSWR	Pattern
31_SMA-BNC-50-51_01	SMA female	BNC female	1.15	Straight
32_SMA-BNC-50-51_01	SMA male	BNC male	1.15	Straight
33_SMA-BNC-50-51_01	SMA male	BNC female	1.15	Straight
33_BNC-SMA-50-51_01	BNC male	SMA female	1.15	Straight

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