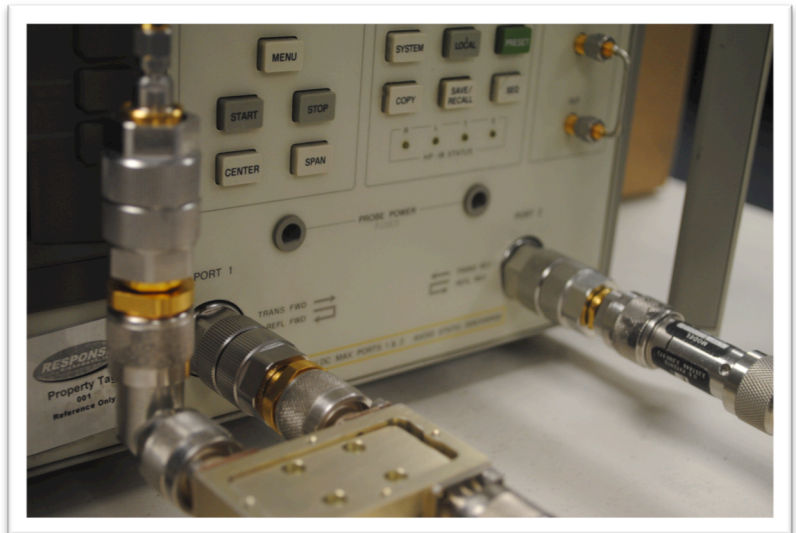


RESPONSE
MICROWAVE, INC.

PRECISION TEST ACCESSORIES

Adaptors
Terminations
Attenuators
DC Blocks
Cable Assemblies
Bias Tees
Couplers
Hybrids
Power Dividers
Phase Shifters
Tools
Cal Kits

PRODUCT GUIDE



COVERAGE FROM DC-65GHz



PRECISION ADAPTORS

IN-SERIES FAMILY

Part Number	Connector 1	Connector 2	Frequency	VSWR
RMAD.IS.N18ff	N18 female	N18 female	DC-18GHz	1.20:1 max
RMAD.IS.N18mf	N18 male	N18 female	DC-18GHz	1.20:1 max
RMAD.IS.N18mm	N18 male	N18 male	DC-18GHz	1.20:1 max
RMAD.IS.TNC18ff	TNC18 female	TNC18 female	DC-18GHz	1.20:1 max
RMAD.IS.TNC18mf	TNC18 male	TNC18 female	DC-18GHz	1.20:1 max
RMAD.IS.TNC18mm	TNC18 male	TNC18 male	DC-18GHz	1.20:1 max
RMAD.IS.SMA27ff	SMA27 female	SMA female	DC-26.5GHz	1.15:1 max
RMAD.IS.SMA27mf	SMA27 male	SMA female	DC-26.5GHz	1.15:1 max
RMAD.IS.SMA27mm	SMA27 male	SMA male	DC-26.5GHz	1.15:1 max
RMAD.IS.35ff	3.5mm female	3.5mm female	DC-33GHz	1.15:1 max
RMAD.IS.35mf	3.5mm male	3.5mm female	DC-33GHz	1.15:1 max
RMAD.IS.35mm	3.5mm male	3.5mm male	DC-33GHz	1.15:1 max
RMAD.IS.292ff	2.92mm female	2.92mm female	DC-40GHz	1.20:1 max
RMAD.IS.292mf	2.92mm male	2.92mm female	DC-40GHz	1.20:1 max
RMAD.IS.292mm	2.92mm male	2.92mm male	DC-40GHz	1.20:1 max
RMAD.IS.24ff	2.4mm female	2.4mm female	DC-50GHz	1.20:1 max
RMAD.IS.24mf	2.4mm male	2.4mm female	DC-50GHz	1.20:1 max
RMAD.IS.24mm	2.4mm male	2.4mm male	DC-50GHz	1.20:1 max
RMAD.IS.185ff	1.85mm female	1.85mm female	DC-65GHz	1.30:1 max
RMAD.IS.185mf	1.85mm male	1.85mm female	DC-65GHz	1.30:1 max

NMD SERIES FAMILY

Part Number	Connector 1	Connector 2	Frequency	VSWR
RMAD.IS.NMD35fm	NMD3.5mm female	NMD3.5mm male	DC-26.5GHz	1.15:1 max
RMAD.IS.NMD35ff	NMD3.5mm female	NMD3.5mm female	DC-26.5GHz	1.15:1 max
RMAD.BS.NMD35Nfm	NMD3.5mm female	N18 male	DC-18GHz	1.15:1 max
RMAD.BS.NMD35Nff	NMD3.5mm female	N18 female	DC-18GHz	1.15:1 max
RMAD.BS.NMD29NMD35fm	NMD2.92mm female	NMD3.5mm male	DC-26.5GHz	1.15:1 max
RMAD.BS.NMD2935ff	NMD2.92mm female	3.5mm female	DC-26.5GHz	1.15:1 max
RMAD.IS.NMD24fm	NMD2.4mm female	NMD2.4mm male	DC-50GHz	1.25:1 max
RMAD.BS.NMD2424ff	NMD2.4mm female	2.4mm female	DC-50GHz	1.25:1 max
RMAD.BS.NMD24NMD29fm	NMD2.4mm female	NMD2.92mm male	DC-40GHz	1.20:1 max
RMAD.BS.NMD2429ff	NMD2.4mm female	2.92mm female	DC-40GHz	1.20:1 max
RMAD.BS.NMD24NMD35fm	NMD2.4mm female	NMD3.5mm male	DC-26.5GHz	1.15:1 max
RMAD.BS.NMD2435ff	NMD2.4mm female	3.5mm female	DC-26.5GHz	1.15:1 max
RMAD.IS.NMD185fm	NMD1.85mm female	NMD1.85mm female	DC-67GHz	1.35:1 max
RMAD.BS.NMD185185ff	NMD1.85mm female	1.85mm female	DC-67GHz	1.35:1 max
RMAD.BS.NMD185NMD24fm	NMD1.85mm female	NMD2.4mm male	DC-50GHz	1.25:1 max
RMAD.BS.NMD18524ff	NMD1.85mm female	2.4mm female	DC-50GHz	1.25:1 max

7 mm SERIES FAMILY



Part Number	Connector 1	Connector 2	Frequency	VSWR
RMAD.BS.735ff	7mm female	3.5mm female	DC-18GHz	1.10:1 max
RMAD.BS.735fm	7mm female	3.5mm male	DC-18GHz	1.10:1 max
RMAD.BS.729ff	7mm female	2.92mm female	DC-18GHz	1.10:1 max
RMAD.BS.729fm	7mm female	2.92mm male	DC-18GHz	1.10:1 max
RMAD.BS.7N18ff	7mm female	N18 female	DC-18GHz	1.10:1 max
RMAD.BS.7N18fm	7mm female	N18 male	DC-18GHz	1.10:1 max

BETWEEN-SERIES FAMILY

All gender and series combinations available between:

SMA27
N18
TNC18
3.5mm
2.92mm
2.4mm
1.85mm

Contact us for individual data sheets.

PRECISION COMPONENTS



TERMINATIONS

Part Number	Connector	Frequency	VSWR	Power
RMTE.18000.Nm	N18 male	DC-18GHz	1.20:1 max	2W
RMTE.18000.TNCm	TNC18 male	DC-18GHz	1.20:1 max	2W
RMTE.27000.SMAm	SMA27 male	DC-26.5GHz	1.20:1 max	0.5W
RMTE.27000.35m	3.5mm male	DC-26.5GHz	1.15:1 max	0.5W
RMTE.40000.292m	2.92mm male	DC-40GHz	1.25:1 max	0.5W
RMTE.50000.24m	2.4mm male	DC-50GHz	1.30:1 max	0.5W
RMTE.65000.185m	1.85mm male	DC-65GHz	1.45:1 max	0.5W

DC BLOCKS



Part Number	Connector	Frequency	VSWR	Loss
RMDC.18000.Nmf	N18 male/female	DC-18GHz	1.25:1 max	0.6dB max
RMDC.18000.TNCmf	TNC18 male/female	DC-18GHz	1.25:1 max	0.6dB max
RMDC.18000SMAmf	SMA male/female	DC-18GHz	1.25:1 max	0.8dB max
RMDC.27000.SMA27mf	SMA27 male/female	DC-26.5GHz	1.25:1 max	0.8dB max
RMDC.26500.35mf	3.5mm male/female	DC-26.5GHz	1.25:1 max	0.8dB max
RMDC.40000.292mf	2.92mm male/female	DC-40GHz	1.30:1 max	0.8dB max

ATTENUATORS

Part Number	Connector	Attenuation	Frequency	Power
RMATxx.18000.Nmf	N18 male/female	xx = 1 - 40dB	DC-18GHz	5W
RMATxx.18000SMAmf	SMA male/female	xx = 1 - 40dB	DC-18GHz	2W
RMATxx.27000.SMA27mf	SMA27 male/female	xx = 1 - 40dB	DC-26.5GHz	2W
RMATxx.26500.35mf	3.5mm male/female	xx = 1 - 40dB	DC-26.5GHz	2W
RMATxx.40000.292mf	2.92mm male/female	xx = 1 - 40dB	DC-40GHz	2W

DIRECTIONAL COUPLERS

Part Number	Connector	Coupling	Frequency	Loss
RMCOxx.05-18000Sf	SMA female	xx = 6 - 40dB	0.5-18GHz	1.5dB max
RMCOxx.1-18Sf	SMA female	xx = 6 - 40dB	1-18GHz	1.3dB max
RMCOxx.2-18Sf	SMA female	xx = 6 - 40dB	2-18GHz	1.2dB max

QUADRATURE HYBRIDS

Part Number	Connector	Coupling	Frequency	Loss
RMHY3.1-18Sf	SMA female	3dB	1-18GHz	2.5dB max
RMHY3.18000Sf	SMA female	3dB	2-18GHz	1.8dB max

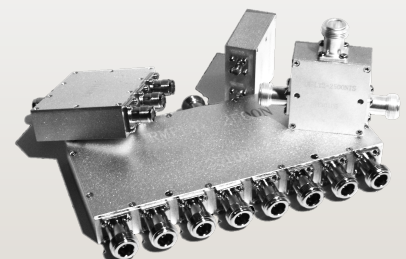
POWER DIVIDERS



Part Number	Connector	Division	Frequency	Isolation
RMPD2.1-18Sf	SMA female	2-way	1-18GHz	15dB min
RMPD2.2-18Sfa	SMA female	2-way	2-18GHz	18dB min
RMPD3.2-18Sf	SMA female	3-way	2-18GHz	16dB min
RMPD4.1-18Sf	SMA female	4-way	1-18GHz	14dB min
RMPD4.2-18Sf	SMA female	4-way	2-18GHz	16dB min

PHASE SHIFTERS

Part Number	Connector	Phase Variation	Frequency	VSWR
RMPS.11000Sf	SMA female	40°/GHz	DC-11GHz	1.35:1 max
RMPS.18000Sf	SMA female	53°/GHz	DC-18GHz	1.15:1 max
RMPS.20000Sf	SMA female	53°/GHz	DC-20GHz	1.15:1 max



vCABLZ™

VNA CABLE ASSEMBLIES



VNA Test Port	Connector 1	Connector 2	Part Number	Frequency	VSWR	IL	Amplitude Stability	Phase Stability
Type N female	Type N male	Type N male	RMCA24.vCBLZNmm	18GHz	1.20:1 max	<1.5dB	<±0.05dB	<±2.0°
		Type N female	RMCA24.vCBLZNmf					
		NMD3.5mm male	RMCA24.vCBLZNd35mm					
		3.5mm female	RMCA24.vCBLZN35mf					
NMD3.5mm male	NMD3.5mm female	NMD3.5mm male	RMCA24.vCBLZd35fm	26.5GHz	1.25:1 max	<1.8dB		<±2.5°
		3.5mm female	RMCA24.vCBLZd3535ff	18GHz	1.20:1 max	<1.5dB		<±2.0°
		Type N male	RMCA24.vCBLZd35Nfm					
		Type N female	RMCA24.vCBLZd35Nff					
NMD2.92mm male	NMD2.92mm female	NMD2.92mm male	RMCA24.vCBLZd29fm	40GHz	1.30:1 max	<2.8dB		<±3.0°
		2.92mm female	RMCA24.vCBLZd2929ff					
		NMD2.4mm male	RMCA24.vCBLZd29d24fm					
		2.4mm female	RMCA24.vCBLZd2924ff					
NMD2.4mm male	NMD2.4mm female	NMD2.4mm male	RMCA24.vCBLZd24fm	50GHz	1.35:1 max	<3.2dB	<±3.5°	
		2.4mm female	RMCA24.vCBLZd2424ff	40GHz	1.30:1 max	<2.8dB	<±3.0°	
		NMD2.92mm male	RMCA24.vCBLZd24d29fm					
		2.92mm female	RMCA24.vCBLZd2429ff					
NMD1.85mm male	NMD1.85mm female	NMD1.85mm male	RMCA24.vCBLZd18fm	67GHz	1.50:1 max	<5.8dB	<±6.5°	
		1.85mm female	RMCA24.vCBLZd1818ff					

24inch standard length – optional lengths available upon request

Mechanical Parameters:

Center Conductor: Silver plated copper
 Dielectric: PTFE
 Inner Shield: Silver plated copper braid
 Outer Shield: Silver plated copper tape
 Outer Jacket: Multi-layer armor
 Minimum Bend Radius: 50 mm (1.97")

Environmental Parameters:

Operating Temperature: 0 + 40°C
 Storage Temperature: -40 + 75°C
 Compression Resistance: > 920 kgf/cm

