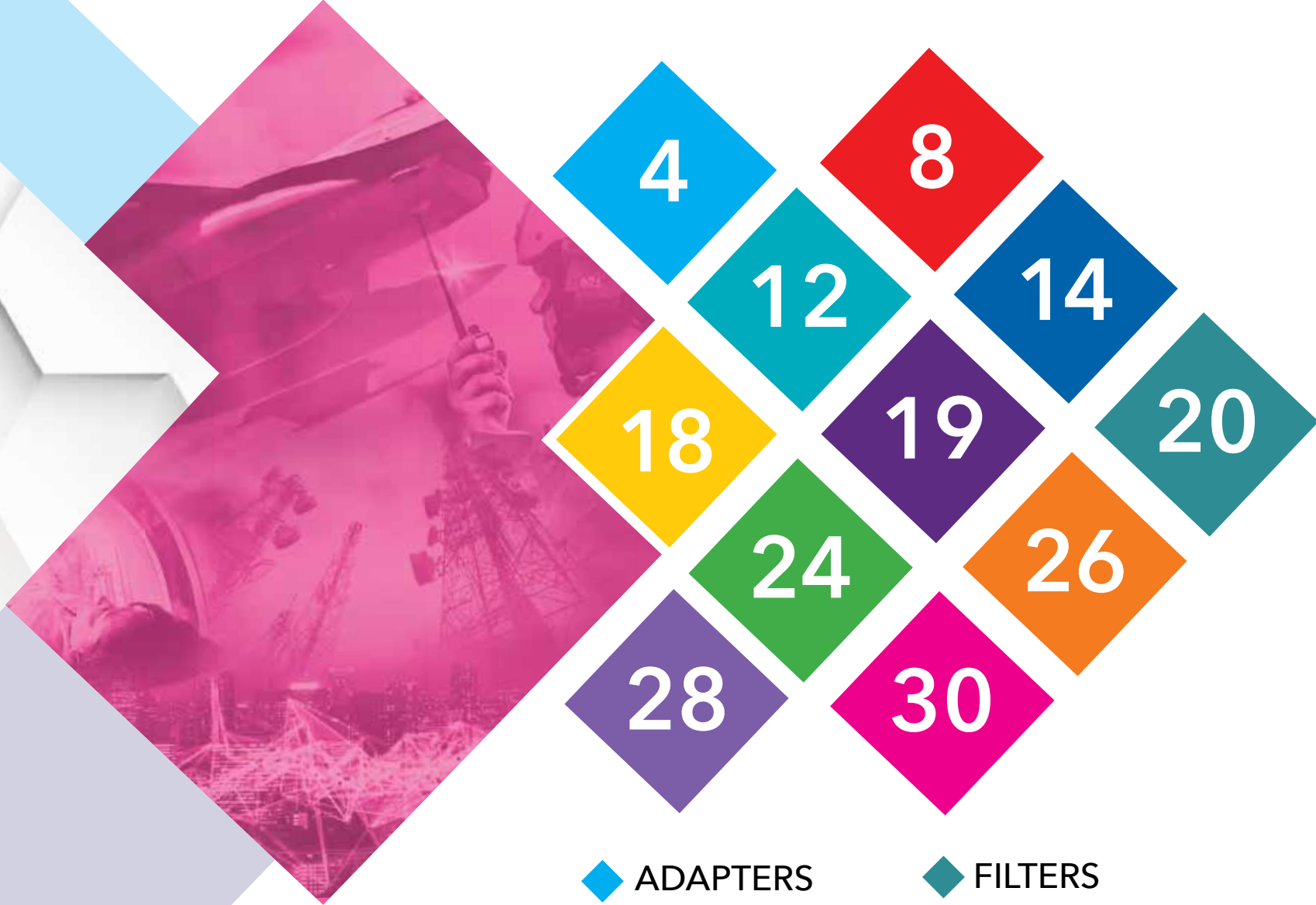




NEW PRODUCT GUIDE

 **Mini-Circuits®**

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ADAPTERS

HIGHLIGHTS

- ▶ Right-angle adapters now up to 40 GHz
- ▶ SMA, SMP, N-Type, 2.92mm, 2.4mm and 1.85mm connector options

50Ω DC to 40000 MHz

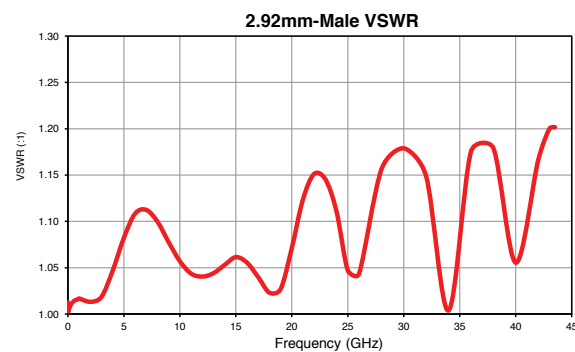
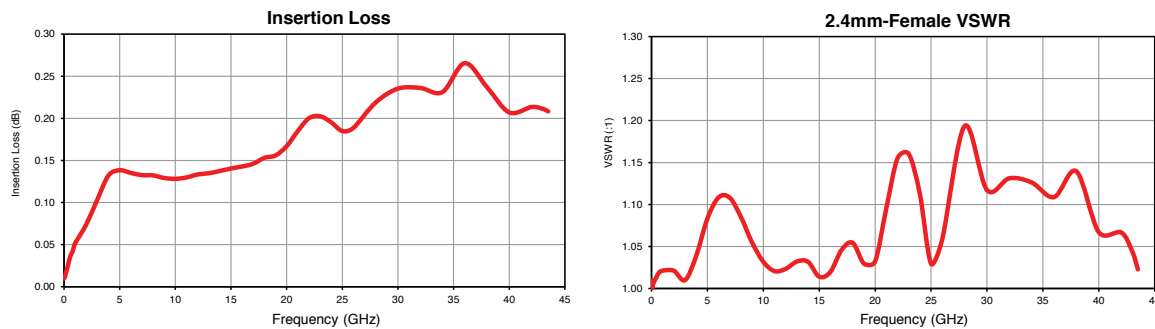
Right-Angle Adapters

- Ultra-wideband
- Flat response
- Low insertion loss
- Excellent VSWR



NEW RELEASE	Connector 1	Connector 2	Frequency Range (GHz)	VSWR (:1)
Model Number				
KMR-24F+	2.4mm-F	2.92mm-M Right Angle	DC-40	1.09
NF-NMR50+	N-Female	N-Male Right Angle	DC-6	1.02
NF-NMR50-18+	N-Female	N-Male Right Angle	DC-18	1.06
SFR-KF50+	SMA-Female	2.92mm-F Right Angle	DC-18	1.11
SFR-SM50+	SMA-Female	SMA-M Right Angle	DC-18	1.09
SMPMR-SM50+	SMP-Male	SMA-M Right Angle	DC-26.5	1.1

KMR-24F+



50Ω DC to 67000 MHz

2.92mm, 2.4mm & 1.8mm Adapters

- Ultra-wideband
- Flat response
- Low insertion loss
- Excellent VSWR



NEW RELEASE	Connector 1	Connector 2	Frequency Range (GHz)	VSWR (:1)
Model Number				
185F-185F+	1.85mm-F	1.85mm-F	DC-67	1.05
185M-185F+	1.85mm-M	1.85mm-F	DC-67	1.04
185M-185M+	1.85mm-M	1.85mm-M	DC-67	1.04
24F-24F+	2.4mm-F	2.4mm-F	DC-50	1.03
24F-24M+	2.4mm-F	2.4mm-M	DC-50	1.06
24M-24M+	2.4mm-M	2.4mm-M	DC-50	1.04
185F-24F+	1.85mm-F	2.4mm-F	DC-50	1.08
185F-24M+	1.85mm-F	2.4mm-M	DC-50	1.08
185M-24F+	1.85mm-M	2.4mm-F	DC-50	1.06
185M-24M+	1.85mm-M	2.4mm-M	DC-50	1.04
VFPM-VF+	2.4mm-F	2.4mm-F	DC-50	1.04
185F-KF+	1.85mm-F	2.92mm-F	DC-40	1.05
185F-KM+	1.85mm-F	2.92mm-M	DC-40	1.04
185M-KF+	1.85mm-M	2.92mm-F	DC-40	1.04
185M-KM+	1.85mm-M	2.92mm-M	DC-40	1.03
KF-24F+	2.92mm-F	2.4mm-F	DC-40	1.1
KF-24M+	2.92mm-F	2.4mm-M	DC-40	1.1
KF-24MNMMD+	2.92mm-F	2.4mm NMD-M	DC-40	1.06
KF-KF50+	2.92mm-F	2.92mm-F	DC-40	1.03
KF-KM50+	2.92mm-F	2.92mm-M	DC-40	1.04
KFFL-KF50+	2.92mm-F	2.92mm-F	DC-40	1.05
KFNMD-24MNMMD+	2.92mm NMD-F	2.4mm NMD-M	DC-40	1.08
KFNMD-KM+	2.92mm NMD-F	2.92mm-M	DC-40	1.06
KFNMD-KMNMD+	2.92mm NMD-F	2.92mm NMD-M	DC-40	1.05
KFPM-KF50+	2.92mm-F	2.92mm-F	DC-40	1.08
KM-24F+	2.92mm-M	2.4mm-F	DC-40	1.1
KM-24M+	2.92mm-M	2.4mm-M	DC-40	1.1
KM-24MNMMD+	2.92mm-M	2.4mm NMD-M	DC-40	1.04
KM-KM50+	2.92mm-M	2.92mm-M	DC-40	1.02
KMNMD-24MNMMD+	2.92mm NMD-M	2.4mm NMD-M	DC-40	1.06
SMPM-VM50+	SMP-M	2.4 mm-M	DC-40	1.1



AMPLIFIERS

HIGHLIGHTS

- ▶ New MMIC digital variable gain amplifier with integrated reflectionless filter
- ▶ New Class-A pulse amplifier covers 0.0025 to 700MHz
- ▶ Expanded selection of coaxial ultra-wideband amplifiers up to 43.5 GHz

50Ω 900 to 1200 MHz

MMIC Variable Gain Amplifiers

- New model features integrated amplifier, reflectionless filter and digital attenuator
- Digital gain control up to 31.5 dB in 0.5 dB steps
- Flat frequency response
- Serial and parallel control interfaces



NEW RELEASE	Frequency Range (MHz)	Gain (dB)	NF (dB)	P1dB (dBm)	OIP3 (dBm)	Input VSWR (:1)	Output VSWR (:1)	Voltage (V)	DC Current (mA)
DVGA3-122+	900-1200	20	0.5	15.6	28	1.92	2.6	5	52.2
DVGA1-242A+	450-2400	29.3	2.4	22.9	35.9	2.43	1.66	5	155
DVGA1-242APP+	450-2400	29.5	2.6	22.8	35.5	2.54	1.39	5	158
DVGA2-33A+	50-3000	18.1	5.3	18	31.3	1.6	1.43	5	91
DVGA2-33APP+	50-3000	19.3	5.3	16.4	31.5	1.53	1.39	3 & 5	91

50Ω 3400 to 3700 MHz

Coaxial 40W Amplifier

- High gain, 50 dB
- Excellent gain flatness, ±1.0 dB
- High OIP3, +52 dBm
- Self-protected against over-temperature and immune to opens and shorts



Model Number	Frequency Range (MHz)	Gain (dB)	NF (dB)	P1dB (dBm)	OIP3 (dBm)	Input VSWR (:1)	Output VSWR (:1)	Voltage (V)	DC Current (mA)
ZHL-40W-372-S+	3400-3700	50	15	46	52	1.5	1.5	28	6200

50Ω 1800 to 6000 MHz

Coaxial Wideband LNA

- Low noise figure, 0.9 dB
- High gain, 27.8 dB
- Excellent gain flatness, ±1.6 dB



Model Number	Frequency Range (MHz)	Gain (dB)	NF (dB)	P1dB (dBm)	OIP3 (dBm)	Input VSWR (:1)	Output VSWR (:1)	Voltage (V)	DC Current (mA)
ZX60-63GLN+	1800-6000	27.8	0.9	13.6	26	1.7	1.7	5	67

50Ω 0.0025 to 700 MHz

Pulse Amplifier

- High gain, 25 dB
- Excellent gain flatness, ±0.6 dB
- Can handle wide pulse width (15µs) with excellent rise/fall time (1.1ns)
- 1.5ns delay time
- Class A operation
- Protected against reverse polarity and withstands open/short loads without damage.



Model Number	Frequency Range (MHz)	Gain (dB)	NF (dB)	P1dB (dBm) @ 1dB Comp.	OIP3 (dBm)	Input VSWR (:1)	Output VSWR (:1)	Voltage (V)	DC Current (mA)
ZHL-72A+	0.0025-700	25	7.7	24	34	2	2	24	350

50Ω 0.05 to 43500 MHz

Coaxial Ultra-Wideband Amplifiers

- Internally voltage regulated and reverse voltage protected
- Excellent directivity



NEW RELEASE	Frequency Range (MHz)	Gain (dB)	NF (dB)	P1dB (dBm)	OIP3 (dBm)	Input VSWR (:1)	Output VSWR (:1)	Voltage (V)	DC Current (mA)
ZVA-24443G1+	24000-43500	45	1.7	20	27	2	2.5	15	160
ZVA-02443HP+	2000-43500	37	3.5	17	25	1.5	1.8	15	130
ZVA-443HGX+	10-43500	33	3.5	9	18	1.5	2.5	15	225
ZVA-403GX+	0.05-40000	11	4.5	11	21	1.45	1.6	5	100
ZVA-01243+	1000-22000	12.8	5	21.6	27.5	1.7	1.4	8	170
ZVA-203GX+	1500-21000	29	3	15.5	27.5	1.5	1.6	5	450
ZVA-213UWX+	100-20000	14	3	16	29	1.3	1.4	+12, -5	84

50Ω DC to 65000 MHz

Coaxial Precision Fixed

- Extremely wideband
- Good VSWR
- Outstanding accuracy over full range



NEW RELEASE	Frequency Range (MHz)	Attenuation (dB)	Flatness (dB)	VSWR (:1)	Input Power (W), Max	Connector Type
Model Number						
BW-E1-1W653+	DC-65000	1	0.65	1.65	1	1.85 mm
BW-E2-1W653+	DC-65000	2	1.5	1.13	1	1.85 mm
BW-E3-1W653+	DC-65000	3	1.5	1.65	1	1.85 mm
BW-E6-1W653+	DC-65000	6	1.5	1.65	1	1.85 mm
BW-E10-1W653+	DC-65000	10	1.5	1.65	1	1.85 mm
BW-E20-1W653+	DC-65000	20	1.5	1.65	1	1.85 mm
BW-E30-1W653+	DC-65000	30	1.5	1.65	1	1.85 mm

50Ω DC to 43500 MHz

MMIC Fixed Attenuator Die Designer's Kits

- Ultra-wideband operation
- Power handling up to 2W
- Outstanding accuracy and flatness
- Attenuation values from 0 to 30 dB




NEW RELEASE	Model Series	Description	Package	Attenuation Values included in Kit (dB)	Qty. Ea.	Total Qty.
Model Number						
K1-KAT+	KAT	DC to 43.5 GHz 2 Watts	QFN	3, 6, 10, 15, 20	10	50
K1-KAT+	KAT	DC to 43.5 GHz 2 Watts	QFN	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 30	5	75
K2-KAT-DG+	KAT	DC to 43.5 GHz 2 Watts	DIE	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 30	5	75

ATTENUATORS

HIGHLIGHTS

- ▶ Expanded selection of coaxial precision fixed attenuators to 65 GHz
- ▶ MMIC fixed attenuator designer's kits available up to 43.5 GHz



CABLES

HIGHLIGHTS

- ▶ New 75 Ω precision test cable
- ▶ SMA-SMP HandFlex[®] cables with right-angle and bulkhead mountings
- ▶ New flexible test cables up to 26 GHz

50Ω DC to 26000 MHz

Flexible Test Cables

- Ultra-wideband
- Minimal performance change versus flexure
- Low loss
- Performance qualified to 20,000 flexures



NEW RELEASE	Connector 1	Connector 2	Length (FT)	Frequency Range (GHz)	Insertion Loss (dB)
FLC-2M-SMNM+	N-Type-Male	SMA-Male	6.56	DC-18.0	4.03
FLC-2M-SMSM+	SMA-Male	SMA-Male	6.56	DC-26.0	5.5
FLC-6FT-SMSM+	SMA-Male	SMA-Male	6.0	DC-26.0	5.04
FLC-4FT-SMSM+	SMA-Male	SMA-Male	4.0	DC-26.0	3.55
FLC-1M-SMSM+	SMA-Male	SMA-Male	3.28	DC-26.0	2.62
FLC-3FT-SMSM+	SMA-Male	SMA-Male	3.0	DC-26.0	2.5
FLC-2FT-SMSM+	SMA-Male	SMA-Male	2.0	DC-26.0	1.61
FLC-1.5FT-SMSM+	SMA-Male	SMA-Male	1.5	DC-26.0	1.26
FLC-1FT-SMSM+	SMA-Male	SMA-Male	1.0	DC-26.0	1.1

75Ω DC to 3000 MHz

Precision Test Cables

- Wideband
- Excellent return loss
- Performance qualified to 20,000 flexures



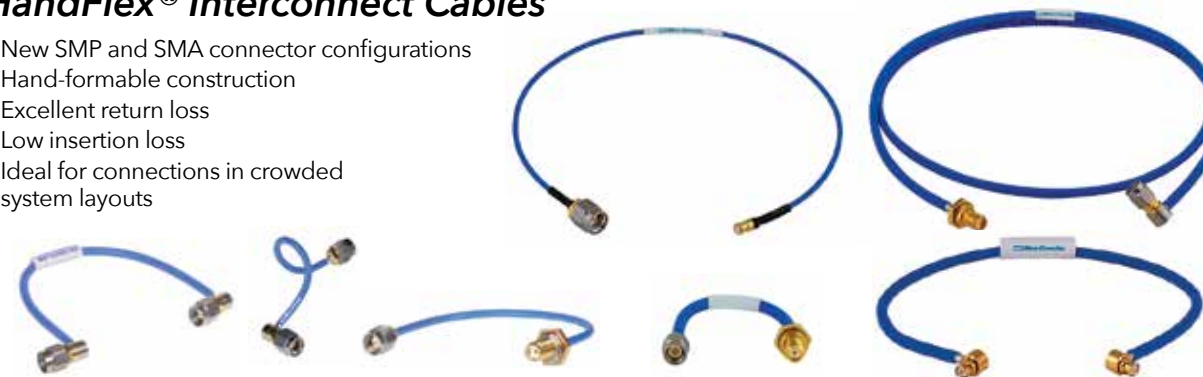
Connector types may vary. Go to minicircuits.com for datasheet details.

NEW RELEASE	Connector 1	Connector 2	Length (FT)	Frequency Range (MHz)	Insertion Loss
CBL-6FM-75+	F-Type Male Standard	F-Type Male Standard	6.0	DC-3000	1.43
CBL-6NM-75+	F-Type Male Standard	N-Type Male Standard	6.0	DC-3000	1.43
CBL-4NM-75+	F-Type Male Standard	N-Type Male Standard	4.0	DC-3000	0.8
CBL-1MFM-75+	F-Type Male Standard	F-Type Male Standard	3.28	DC-3000	0.89
CBL-3FM-75+	F-Type Male Standard	F-Type Male Standard	3.0	DC-3000	0.77
CBL-3NM-75+	F-Type Male Standard	N-Type Male Standard	3.0	DC-3000	0.7
CBL-2FM-75+	F-Type Male Standard	F-Type Male Standard	2.0	DC-3000	0.61

50Ω DC to 18000 MHz

HandFlex® Interconnect Cables

- New SMP and SMA connector configurations
- Hand-formable construction
- Excellent return loss
- Low insertion loss
- Ideal for connections in crowded system layouts



Model Number	Connector 1	Connector 2	Length (FT)	Center Diameter (In.)	Frequency Range (GHz)	Insertion Loss
086-18SMRSM+	SMA Male Straight	SMA Male Right Angle 0° Clock	1.5	0.086	DC-18.0	1.7
086-10SMPR+	SMP Female Right Angle 0° Clock	SMP Female Right Angle 0° Clock	0.83	0.086	DC-18.0	0.83
086-8SBSM+	SMA Male Straight	SMA Female Straight Bulkhead	0.67	0.086	DC-18.0	0.7
086-8SMPSM+	SMA Male Straight	SMP Female Straight	0.67	0.086	DC-18.0	0.63
141-7SBSM+	SMA Male Straight	SMA Female Straight Bulkhead	0.58	0.141	DC-18.0	0.37
141-6SBSMR+	SMA Male Right Angle 0° Clock	SMA Female Straight Bulkhead	0.5	0.141	DC-18.0	0.28
086-5SMPR+	SMP Female Right Angle 0° Clock	SMP Female Right Angle 0° Clock	0.42	0.086	DC-18.0	0.43
141-2SMRC+	SMA Male Right Angle 180° Clock	SMA Male Right Angle 0° Clock	0.17	0.141	DC-18.0	0.21

COUPLERS

HIGHLIGHTS

- ▶ New 100W coaxial bi-directional coupler
- ▶ Wideband coaxial directional couplers up to 50 GHz

50Ω 1 to 50 MHz

100W Bi-Directional Coupler

- High directivity
- Excellent VSWR
- 100W power handling
- Extremely low mainline loss



Model Number	Frequency Range (MHz)	Coupling (dB) Nom.	Mainline Loss (dB) Typ.	Directivity (dB) Typ.	VSWR (:1) Typ.	Power Input Max. (W)
ZABDC50-51HP+	1-50	50	0.06	20	1.06	100

50Ω 1000 to 50000 MHz

Wideband Directional Couplers

- Wideband
- Excellent coupling flatness
- Power handling up to 13W



NEW RELEASES	Frequency Range (MHz)	Coupling (dB) Nom.	Mainline Loss (dB)	Directivity (dB)	VSWR (:1)	Power Input Max. (W)
ZCDC13-V154+	1000-50000	13	1.4	21	1.14	13
ZCDC10-V254+	2000-50000	10	1.3	23	1.08	13
ZCDC10-V654+	6000-50000	10	1.1	21	1.14	13
ZCDC10-V1854+	18000-50000	10	1.2	20	1.14	13

EQUALIZERS

HIGHLIGHTS

- ▶ Connectorized fixed equalizer designer's kit

50Ω DC to 6000 MHz

Connectorized Fixed Equalizer Designer's Kit

- 8 models, 2 of each, 16 total
- Input power +31 dBm max.
- 1 to 10 dB attenuation slope
- SMA male and female connectors
- Rugged unibody construction
- Low cost



Model Number	Model Series	Frequency Range (MHz)	Slope Values Included in Kit (dB)	Qty. Ea.	Total Qty.
KVEQY-63+	VEQY	DC-6000	1, 2, 3, 4, 5, 6, 8, 10	2	16

FILTERS

HIGHLIGHTS

- ▶ New lumped LC band pass filters
- ▶ New LTCC filters
- ▶ Expanded selection of connectorized reflectionless filters and cavity filters

FL FILTERS

50Ω 24 to 117 MHz

Connectorized Lumped LC Band Pass Filters

- Very good rejection
- Good VSWR in passband
- Connectorized package



Model Number	Pass Band (MHz)	Lower Stopband (MHz)	Lower Rejection (dB)	Upper Stopband (MHz)	Upper Rejection (dB)
BBP-29+	24-35	DC-18	27	46-1600	27
BBP-35B+	24-46	DC-16	29	73-1000	27
BBP-100+	87-117	DC-66	29	143-1500	28
SBP-100+	87-117	DC-66	29	143-1500	28

50Ω 500 to 2200 MHz

SMT Lumped LC Band Pass Filters

- Very good rejection
- Low passband insertion loss, 1.2 dB typ.
- Good VSWR in passband
- Excellent power handling, 10W
- Miniature surface-mount package (0.25 x 0.31 x 0.15")



Model Number	Pass Band (MHz)	Lower Stopband (MHz)	Lower Rejection (dB)	Upper Stopband (MHz)	Upper Rejection (dB)
SYBP-675+	500-850	DC-340	28	1275-4500	22
SYBP-1275+	1100-1450	DC-600	28	2050-5000	25
SYBP-1950+	1700-2200	DC-1030	26	2900-4600	20

50Ω 9700 to 11950 MHz

LTCC Band Pass Filter

- Small size, 1206
- Low loss in passband
- Very high rejection over wide band



Model Number	Passband (MHz)	Lower Stopband (MHz)	Lower Rejection (dB)	Upper Stopband (MHz)	Upper Rejection (dB)
BFCN-1052+	9700-11950	8400	32	14000	28

50Ω 1600 to 8000 MHz

LTCC High Pass Filters

- Small size, 0805
- Very good power handling
- Excellent rejection



Model Number	Frequency Range (MHz)	Passband F1 (MHz)	f _{co} (MHz)	Stopband F3 (MHz)	Rejection @ F3 (dB)	Stopband F4 (MHz)	Rejection @ F4 (dB)
HFCG-1500+	1600-6000	1600-6000	1400	DC-800	40	800-1000	35
HFCG-1760+	1800-8000	1800-8000	1560	DC-800	38	800-1200	36

50Ω DC to 8400 MHz

LTCC Low Pass Filters

- Very good rejection
- Rugged, ceramic construction
- Tiny size, 0603
- Good power handling, up to 12.6 W



NEW RELEASES						
Model Number	Passband F1 (MHz)	Passband F2 (MHz)	Stopband F3 (MHz)	Rejection @ F3 (dB)	Stopband F4 (MHz)	Rejection @ F4 (dB)
LFCW-133+	DC-13250	13650	14910-15410	20	-	-
LFCW-1142+	DC-11400	11700	12860-13860	20	-	-
LFCW-1062+	DC-10600	10800	12160-12860	20	-	-
LFCW-8400+	DC-8400	9800	12200-16000	45	16000-26500	15
LFCW-6000+	DC-6000	6800	8200-14000	42	14000-26500	15
LFCW-5000+	DC-5000	5750	7200-11000	40	11000-26500	15
LFCW-272+	DC-2690	3200	4400	20	4800-5400	30

50Ω DC to 400 MHz

Connectorized LTCC Low Pass Filters

- Excellent power handling
- Temperature stable
- Rugged, unibody construction
- Good rejection



Model Number	Frequency Range (MHz)	Passband F1 (MHz)	fco (MHz)	Stopband F3 (MHz)	Rejection @ F3 (dB)	Stopband F4 (MHz)	Rejection @ F4 (dB)
VLF-400+	DC-400	DC-400	520	800-2500	31	2500-4500	23
VLF-320+	DC-320	DC-320	440	660-2000	33	2000-6000	25

50Ω 4800 to 9000 MHz

Connectorized Reflectionless High Pass Filters

- Patented internal load eliminates reflections
- Cascadable
- SMA connectorized housing



NEW RELEASE						
Model Number	Passband F1 (MHz)	fco (MHz)	Stopband F3 (MHz)	Rejection @ F3 (dB)	Stopband F4 (MHz)	Rejection @ F4 (dB)
VXHF-392+	3940-11500	-	DC-2450	12.5	-	-
VXHF-23+	2010-10100	1650	DC-1210	14	-	-
VXHF-482M+	4800-9000	4390	DC-2400	37	2400-3600	36
VXHF-292M+	2900-8700	2400	DC-1950	36	-	-

50Ω DC to 2000 MHz

Coaxial Reflectionless Low Pass Filter

- Eliminates undesired reflections
- Cascadable
- Excellent power handling
- Temperature stable

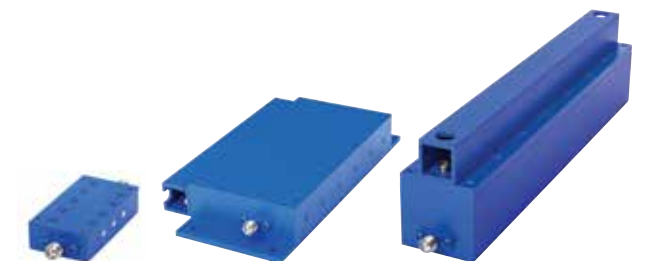


Model Number	Frequency Range (MHz)	Passband F1 (MHz)	fco (MHz)	Stopband F3 (MHz)	Rejection @ F3 (dB)	Stopband F4 (MHz)	Rejection @ F4 (dB)	Interface
VXLF-172H+	DC-2000	DC-2000	2350	3600-3800	28	3800-11000	47	Conn

50Ω 1202.6 to 2500 MHz

Cavity Band Pass Filters

- Very low insertion loss
- High rejection
- Very fast roll-off with wide stopband



NEW RELEASES					
Model Number	Passband (MHz)	Lower Stopband F3 (MHz)	Rejection @ F3 (dB)	Upper Stopband F4 (MHz)	Rejection @ F4 (dB)
ZVBP-11G3-S+	11200-11400	DC-11030	35	11580-20000	35
ZVBP-10R5G-S+	9750-11250	DC-5950	35	15100-18000	35
ZVBP-9R6G-S+	9550-9650	DC-9300	30	9900-20400	33
ZVBP-8250-S+	8025-8475	DC-7650	20	8925-11000	20
ZVBP-7100-S+	7025-7175	DC-6990	36	7224-14000	35
ZVBP-5800-S+	5725-5875	DC-5200	35	6400-14000	35
ZVBP-5310-S+	5250-5370	DC-5080	20	5530-8250	20
ZVBP-4900-S+	4840-4960	DC-4670	20	5100-9000	20
ZVBP-4810-S+	4750-4870	DC-4600	20	5020-8250	20
ZVBP-4300-S+	4250-4350	DC-4140	20	4480-8000	20
ZVBP-4000-S+	3997-4003	DC - 3800	70	4200 - 6000	70
ZVBP-3875-S+	3845-3905	DC-3785	35	3970-8500	35
ZVBP-2450-S+	2400-2500	2120-2260	40	2635-2780	40
ZVBP-2450A-S+	2400-2500	DC-2050	57	2850-10000	65
ZVBP-2400-S+	2375-2425	DC-2250	35	2550-6000	35
ZVBP-2300A-S+	2200-2400	DC-2000	30	2550-8050	30
ZVBP-2100-S+	2085-2115	DC-2073	26	2127-5750	26
ZVBP-2072R5-S+	2030-2115	DC-1930	48	2220-6000	49
ZVBP-1575R42-S+	1550.42-1600.42	DC-1475	68	1675-3000	77
ZVBP-1420-N+	1415-1425	DC-1370	81	1470-3000	79
ZVBP-1227R6-S+	1202.6-1252.6	DC-1127	67	1327-2500	74
ZVBP-1176R45-S+	1151.45-1201.45	DC-1076	69	1276-2500	76
ZVBP-909-S+	902-915	10-895	20	925-2300	20
ZVBP-909A-S+	902-915	DC-895	27	923-2300	35

SPLITTERS

SP

SPLITTERS

50Ω 1000 to 65000 MHz

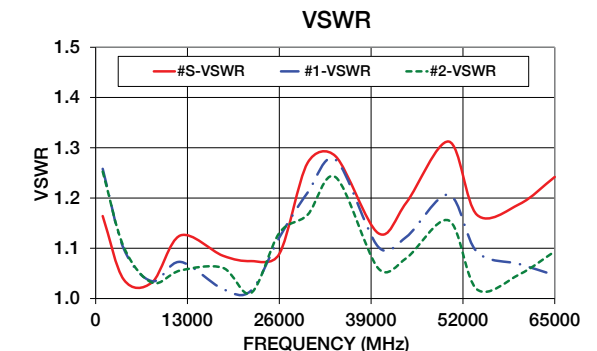
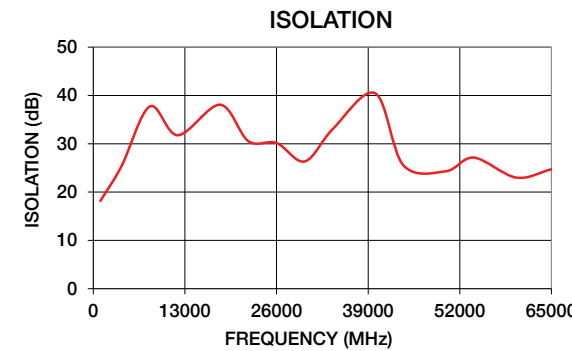
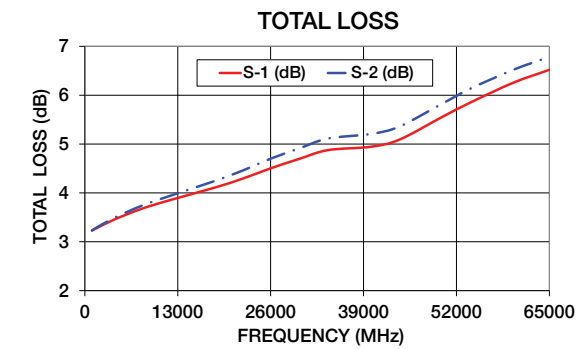
High Power DC Pass/2-Way

- Multi-octave bandwidths
- Low insertion loss
- High isolation
- Low amplitude unbalance



Model Number	N-Ways	Frequency Range (MHz)	Isolation (dB)	Insertion Loss (dB) Above 3dB	Phase Unbalance (deg)	Amplitude Unbalance (dB)	Power Input (W) as Splitter, Max.
ZC2PD-E1653+	2	1000-65000	32	1.8	1.3	0.1	12
ZC2PD-V154+	2	1000-50000	32	1.9	1.2	0.11	16
ZC2PD-V254+	2	2000-50000	28	1.0	1.3	0.09	16
ZC2PD-V654+	2	6000-50000	27	0.9	0.8	0.06	16
ZC2PD-V1854+	2	18000-50000	28	0.75	0.71	0.08	16
ZC4PD-V1854+	4	18000-50000	22	1.4	3.4	0.1	16

ZC2PD-E1653+



HIGHLIGHTS

- ▶ Wideband coaxial splitters up to 65 GHz

TEST SOLUTIONS

HIGHLIGHTS

- ▶ USB & Ethernet controlled switch matrices up to 40 GHz

TS

TEST SOLUTIONS

50Ω DC to 26500 MHz

USB/Ethernet-Controlled Switch Matrices

- Excellent performance up to 40 GHz
- USB & Ethernet control options
- Low insertion loss and high isolation
- User-friendly GUI and DLLs included



NEW RELEASES	Switch Type	Number of Switches	Frequency Range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR (:1)	RF Power (W), Max.
Model Number							
RC-1SP4T-A18	SP4T	1	DC-18	0.25	80	1.2	20
RC-1SP4T-40	SP4T	1	DC-40	0.3	80	1.3	20
RC-1SP4T-26	SP4T	1	DC-26.5	0.2	80	1.35	20
RC-1SP6T-A12	SP6T	1	DC-12	0.2	90	1.2	20
RC-1SP6T-26	SP6T	1	DC-26.5	0.25	90	1.35	20
RC-1SP6T-4	SP6T	1	DC-40	0.4	80	1.7	20
RC-1SPDT-A18	SPDT	1	DC-18	0.25	80	1.2	20
RC-2MTS-18	Transfer Switch	2	DC-18	0.2	86	1.15	10
RC-2SP4T-A18	SP4T	2	DC-18	0.25	80	1.2	20
RC-2SP4T-40	SP4T	2	DC-40	0.3	80	1.3	20
RC-2SP4T-26	SP4T	2	DC-26.5	0.2	80	1.35	20
RC-2SP6T-A12	SP6T	2	DC-12	0.2	90	1.2	20
RC-2SP6T-26	SP6T	2	DC-26.5	0.25	90	1.35	20
RC-2SP6T-40	SP6T	2	DC-40	0.4	80	1.7	20
RC-2SPDT-A18	SPDT	2	DC-18	0.25	80	1.2	20
RC-3SPDT-A18	SPDT	3	DC-18	0.25	80	1.2	20
RC-4SPDT-A18	SPDT	4	DC-18	0.25	80	1.2	20
RC-4SPDT-A26	SPDT	4	DC-26.5	0.54	65	1.25	20
RC-8SPDT-A18	SPDT	8	DC-18	0.25	80	1.2	20

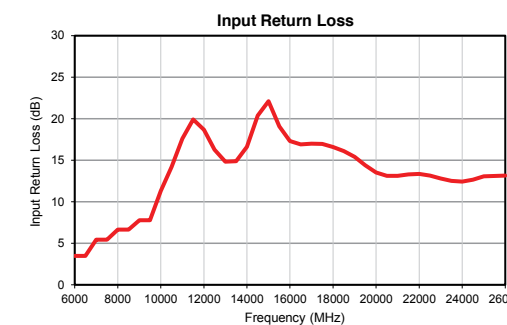
50Ω 10000 to 24000 MHz

Ultra-Wideband MMIC Balun

- Wideband
- Low insertion loss, 1.0 dB to 20 GHz
- Low unbalance, 0.7 dB, 6°
- Power handling up to +31 dBm
- Available in 2x2mm QFN and bare die form



Model Number	Single Ended to Single ended	Single Ended to Balanced	Balanced to Balanced	Center Tap	DC Isolation	Frequency Range (GHz)	Impedance Ratio
MTY2-243+	N	Y	N	N	Y	10000-24000	2



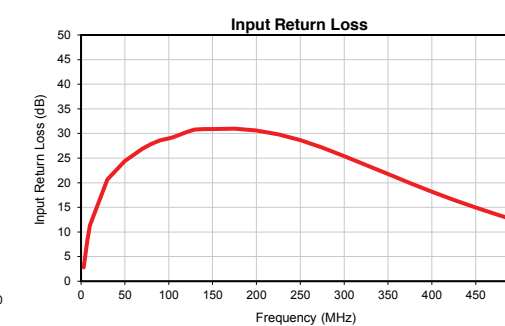
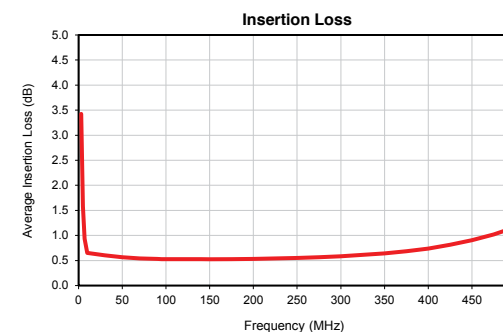
50Ω 10 to 450 MHz

Core & Wire Surface Mount Transformer

- High power handling, 5W
- Low insertion loss, 0.5 dB
- Small size, 0.43 x 0.69 x 0.42"
- Good amplitude and phase unbalances, 7°, 0.5 dB



Model Number	Single Ended to Single ended	Single Ended to Balanced	Balanced to Balanced	Center Tap	DC Isolation	Frequency Range (GHz)	Impedance Ratio
SYTX2-451-5W+	N	Y	Y	N	Y	10-450	2



H I G H L I G H T S

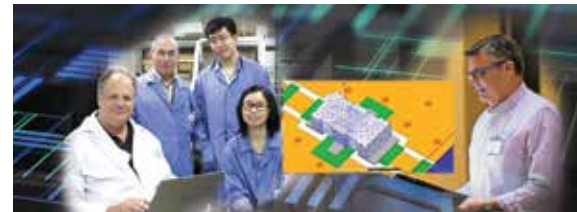
- ▶ Wideband MMIC balun transformers
- ▶ High power handling core & wire surface mount transformers

TRANSFORMERS

TRANSFORMERS



Announcing The Mini-Circuits Blog!



Mini-Circuits is proud to announce the launch of our new blog, offering a range of content from technical publications to executive insights and more. The blog makes it easy to navigate Mini-Circuits' extensive library of articles and engineering reference and will host regularly-updated content so you can keep up on all things Mini-Circuits. Learn about our efforts to create newer, smarter technology in the RF and microwave field, as well as our continuous efforts to foster community both inside and outside the company. The Mini-Circuits blog is part of our commitment to provide value in every interaction with best-in-class information that's relevant to your interests and your work.
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Mini-Circuits Opens New Sales Office in Japan to Service Japan and South Korea Markets



Mini-Circuits has built a worldwide presence with 14 corporate locations in nine countries. Fulfilling our vision to be the world's preferred supplier means maintaining stringent quality standards and exceptional service for customers everywhere in the world. Mini-Circuits' new regional office in Yokohama, Japan will create an additional level of service and technical support to our customers and distributors in the Asia-Pacific region. Read more on our blog!
<https://blog.minicircuits.com/minicircuits-opens-new-sales-office-to-support-japan-s-korea/>

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H I G H L I G H T S

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- ▶ Get Mini-Circuits' New and Improved Microwave Calculator Mobile App
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- ▶ Mini-Circuits Opens New Sales Office in Japan to Service Japan and South Korea Markets.

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