

MONOLYTHIC AMPLIFIERS

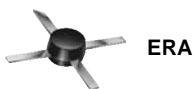
MINI-CIRCUITS MAR AMPLIFIERS



Low cost drop in DC-2.5GHz 50ohm Amplifiers. PO=Poweroutput, NF= Noise figure. **MAV11-A is a square SMD Package Type**

Order No	Description	Each
MAR-1SM	MMIC 0 – 1GHz, gain 17dB PO= 0dBm, NF=5.5dB	\$3.70
MAR-3SM	MMIC 0 – 2GHz, gain 13dB PO= 7dBm, NF=6dB	\$3.35
MAR-4SM	MMIC 0 – 2GHz, gain 8dB PO= 10dBm, NF=6.5dB	\$3.65
MAR-6SM	MMIC 0 – 2GHz, gain 16.5dB PO= 0dBm, NF= 2.8dB	\$3.35
MAV-11+	MMIC 0 – 1GHz, gain 12dB PO= 17.5dBm, NF=3.6dB	\$4.80
MAV-11A	MMIC 50 – 2GHz, gain 12dB PO= 18.5dBm, NF=4.8dB LOW STOCK	\$3.20

MINI-CIRCUITS ERA AMPLIFIERS



Miniature drop in DC-8GHz Microwave Amplifiers usable to 10GHz. PO= 18.5dBm, NF= 8.4dB

Order No	Description	Each
ERA-1+	DC – 8GHz, gain 12dB PO= 12dBm, NF= 5.3dB	\$3.85
ERA-2+	DC – 6GHz, gain 16.4dB PO= 13dBm, NF= 3.8dB	\$3.40
ERA-3+	DC – 3GHz, gain 21dB PO= 12dBm, NF= 2.6dB	\$3.50
ERA-4+	DC – 4GHz, gain 14.2dB PO= 17.3dBm, NF= 5.2dB	\$7.65
ERA-5+	DC – 4GHz, gain 18.4dB PO= 19.5dBm, NF= 4.5dB	\$7.30
ERA-6+	DC – 4GHz, gain 11.3dB PO= 19.6dBm, NF= 4dB	\$6.90

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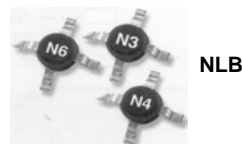
MINI-CIRCUITS AMPLIFIERS



Low cost drop in DC-7GHz Microwave Amplifiers usable to 10GHz. The PMA-545+ is a PHEMT high performance MMIC suitable for use to 6GHz.

Order No	Description	Each
GALI-84+	DC – 6GHz, gain 19dB@2GHz PO= 21dBm, NF= 5.5dB SMD SOT-89	\$4.30
GALI-39+	DC – 7GHz, gain 19.7dB@2GHz PO= 10.5dBm@7GHz, NF= 2.4dB SMD SOT-89	\$3.50
PHA-1+	0.05 – 6GHz, gain 13.5dB@2GHz PO= 22dBm@2GHz, NF= 2.7dB SOT-89 Equivalent to WJ-AH1	\$3.45
PMA-545+	0.05 – 6GHz, gain 20dB@1GHz PO= 20dBm@1GHz, NF=0.8dB SMD QFN 3x3mm Package	\$3.45

RF MICRO DEVICES NLB AMPLIFIERS



RFMD NLB-300/310 Low Cost Drop in Amplifiers that are a better option than the ERA-1 @ 10GHz.

Order No	Description	Each
NLB-300	MMIC 0 – 10GHz, gain 8.9dB@10GHz PO= +12.7dBm @ 10GHz, NF=5.0dB	\$5.50
NLB-310	MMIC 0 – 10GHz, gain 9.7dB@10GHz PO= +13.1dBm @ 10GHz, NF=5.0dB	\$4.10

FOR DATA SHEETS PLEASE VISIT
WWW.MINICIRCUITS.COM
WWW.RFMD.COM

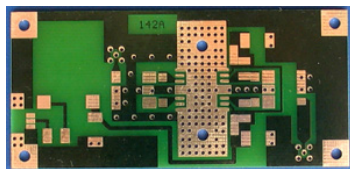
MONOLITHIC AMPLIFIERS

MINI-CIRCUITS AMPLIFIERS



Mini-Circuits HELA-10B is a Kit that includes 1x HELA-10 & 2x ADTL1-12 Transformers.

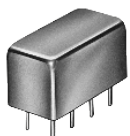
Order No	Description	Each
HELA-10B	MMIC 50– 1000MHz, Gain 12dB, PO= +30dBm, NF=3.5dB	\$35.00



EME142A	PC Board to Suit HELA-10	\$35.00
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Mini-Kits can supply complete amplifiers fully professionally built in a dicast box with heat sinking. Optional band pass or low/high pass filtering is also available.

MINI-CIRCUITS SPLITTER / COMBINER



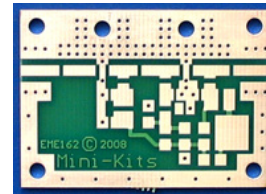
PSC-2-1

Order No	Description	Each
PSC-2-1+	2 Way 0 degree Combiner 0.1-400MHz, 50ohm	\$19.20

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PC BOARDS

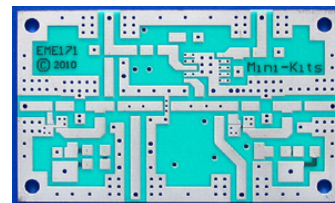
AMPLIFIER EXPERIMENTERS BOARD



The EME162 Experimenters board is designed to be used with the X pack or SOT-89 package devices. The PC board is professionally made using 1mm FR4 PC board material & has plated through holes for heat sinking & good RF grounding. For full parts Kits using the GALI-39 or 84 please refer to www.minikits.com.au/kits2.html for prices.

Order No	Description	Each
EME162 PCB	PC Board Only	\$9.70

MICROWAVE EXPERIMENTERS BOARD



The Universal Microwave Board was designed as a low cost way of experimenting on the microwave bands, & allows the fitting of two RF amplifier devices, a single pipe-cap cavity filter, & RF mixer. The board can be used to build local oscillator multipliers, Low Noise amplifiers, Receive & Transmit converters, & RF driver amplifiers.

Order No	Description	Each
EME171 PCB	PC Board Only	\$20.00

PC board: RO4003C 0.81mm, silver plated.

Supported Devices:

Amplifiers: Mini-Circuits MAR, ERA, Gali, Avago, MSA, MGA86563, MGA86576.

Mixers: Mini-Circuits MCA series

Filters: Copper Pipe-cap Filter, either 1/2", 5/8", 3/4", 7/8", or 1 1/8", also Mini-Circuits HFCN, LFCN.

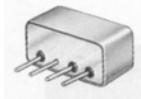
Components: Capacitors, Resistors, 0603, 0805, 1206, Inductors, 0805, 1008, 1206, 1210

FREQUENCY MIXERS

MINI-CIRCUITS MIXERS



ADE



TUF



RMS



MCA

All Mixers are Surface Mounted Types, except TUF-1 & require +7dBm (5mW) of Local Oscillator injection. Maximum RF input power is +1dBm. Some models are suitable for building equipment up to 6GHz

Order No	Description	Each
ADE-1	Double Balanced Mixer L/O & RF 0.5 – 500MHz I/F DC – 500MHz +7dBm	\$5.50
ADE-11X+	Double Balanced Mixer L/O & RF 10-2000MHz I/F 5 - 1000MHz +7dBm	\$5.95
ADE-35+	Double Balanced Mixer L/O & RF 1600-3500MHz I/F DC - 1500MHz +7dBm	\$8.50
MBA-591	Double Balanced Mixer L/O & RF 2800-5900MHz	\$18.56
MCA1-12G+	Double Balanced Mixer L/O & RF 3800-12000MHz I/F DC - 1250MHz +7dBm	\$17.10
MCA1-24+	Double Balanced Mixer L/O & RF 300-2400MHz I/F DC - 700MHz +7dBm	\$9.55
MCA1-85+	Double Balanced Mixer L/O & RF 2800-5900MHz I/F DC - 1800MHz +7dBm	\$13.90
TUF-1+	Double Balanced Mixer L/O & RF 2 – 600MHz I/F DC – 600MHz +7dBm	\$14.95
TUF-1H+	Double Balanced Mixer L/O & RF 2 – 600MHz I/F DC – 600MHz High Level +17dBm	\$23.50

DIGITAL ATTENUATORS

MINI-CIRCUITS DAT



DAT

The DAT –31R5-SP is a 50ohm RF digital step attenuator has a maximum attenuation of –31.5dB in 0.5dB steps between 0—2400MHz. The chip is a 6bit serial interface with a single +3v supply voltage.

Order No	Description	Each
DAT-31R5-SP+	Digital Step Attenuator 0-2400MHz 0.5dB steps Maximum atten -31.5dB	\$6.98

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