

GaAs MMICS / PHEMTS

MINI-CIRCUITS



SOT-343

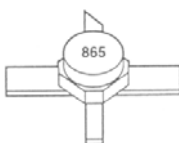
Mini-Circuits, [equivalent to the Avago ATF54143](#), (E-PHEMT FETs) require only positive supply voltage, & are suitable for building low noise high dynamic range amplifiers From VHF to 6GHz. Data sheets are available at <http://www.minicircuits.com>

Order No	Description	Each	10+Ea
SAV-541+	E-PHEMT 17dB gain@2GHz, NF 0.5dB Pout +20dBm @ 2GHz, IP3 +33dBm SOT-343	\$3.60	\$3.24

AVAGO TECHNOLOGIES



SOT-363



76-pack

The AVAGO GaAs MMIC amplifier uses PHEMT technology with internal self biasing current sources, & offers low noise & excellent gain from 1.5 to over 6GHz. Applications include, LNA or gain stages in 1GHz to 6GHz equipment. The amplifier can be used with a input impedance matching network using a simple wire loop to optimize the noise figure.

Order No	Description	Each	10+Ea
MGA82563	Low Noise GaAs MMIC Amplifier 0.1-6GHz, gain 13.2dB, NF 2.2dB at 2.4GHz, O/P +17.3dBm @ 2.4GHz, SOT-363, (SC70)	\$3.50	\$3.15
MGA86563	Low Noise GaAs MMIC Amplifier 0.5-6GHz, gain 21.8dB, NF 1.6dB at 2.4GHz, O/P +3dBm @ 2.4GHz, SOT-363, (SC70)	\$4.30	\$3.87
MGA86576	Low Noise GaAs MMIC Amplifier 1.5-8GHz, gain 23dB, NF 1.6dB At 4GHz, O/P +6dBm@4GHz, 76 ceramic-Pack	\$12.50	-

AVAGO TECHNOLOGIES



SOT-89

Avago's(E-PHEMT FETs) are suitable for building transmitter driver amplifiers From VHF to 4GHz.. These devices will produce +30dBm output @ 1.2GHz. Data sheets are available at <http://www.avagotech.com/>

Order No	Description	Each	10+Ea
ATF50189	PHEMT 15.5dB gain @ 2GHz, NF 1.1dB Pout 29dBm @ 2GHz SOT-89	\$7.00	\$6.30

Refer to www.minikits.com.au/kits2.html For a new 1.2GHz 1 Watt Power amplifier Kit.

TRANSCOM INC



TC3341



TC3531

The TC3341 & 3531 MMIC's are 2 stage PHEMT MMIC power amplifiers. The MMIC's require minimal input & output matching to 50ohms, & have high linear gain, high PAE up to 31%, & excellent linearity. [Data sheets are available on the Mini-Kits web site.](#)

Order No	Description	Each
TC3341	PHEMT MMIC 27dB gain @ 3.5GHz Pout +32.5dBm @ 3.5GHz 8v 700mA	\$35.45
TC3531	PHEMT MMIC 24dB gain @ 5.8GHz Pout +30dBm @ 5.8GHz 7v 600mA	\$28.70

Please Refer to the Mini-Kits Web site for Kits. <http://www.minikits.com.au/kits2.html>

GaAs / PHEMT FETS

NEC

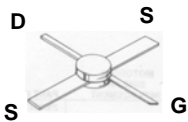


S01

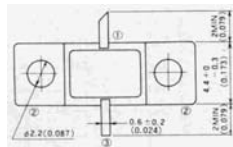
The NE3210S01 & NE3512S02 are both Pseudomorphic Hetro-Junction Fets. These are commonly used in Satellite LNB, & are a good replacement for the now obsolete MGF1302. Data sheets are available at www.cel.com

Order No	Description	Each	10+Ea
NE3210S01	HJ FET 13.5dB gain @ 12GHz 0.35dB NF @ 12GHz, 2V V _{DS} ID 10mA, Package S01	\$6.50	\$5.85
NE3512S02	HJ FET 13.5dB gain @ 12GHz 0.35dB NF @ 12GHz, 2V V _{DS} ID 10mA, Package S02	\$3.50	\$3.15

MITSUBISHI



MGF1302



MGF1302 suitable for Low Noise amplifiers, driver amplifiers, & oscillators from 2 – 12GHz. MGF0904 suitable driver for 2-4GHz Power Amplifiers. The MGF1801 is suitable for driver amplifiers up to 10GHz, & the MGF2430A has a 1W output on 10GHz. Datasheets are available on the Mitsubishi Semiconductors WEB site.

www.mitsubishichips.com

Order No	Description	Each
MGF0904	GasFet 13dB gain @ 1.65GHz Pout 28dBm @ 1.65GHz (9pcs in Stk)	\$20.00
MGF1302	GasFET 11dB gain, 1.4dB NF @ 4GHz, V _{DS} 3v, ID 10mA,	\$7.50
MGF1801B	GasFET 9dB gain @ 8GHz Pout 23dBm @ 8GHz (5pcs in Stk)	\$30.00