

AUTOMATIC GAIN-CONTROL AMPLIFIERS

MODEL: AGC SERIES

FEATURES

- Input dynamic range up to 75 dB
- Output variation < 2 dB
- Multioctave bandwidth
- Improved NPR for spectral purity

OPTIONS

- Customized center frequencies
- Manual gain control
- Open or closed-loop operation
- Increased or decreased acquisition time



MODEL NUMBER	CENTER FREQUENCY (MHz)	3 dB BANDWIDTH (MHz)	DYNAMIC RANGE (dBm)	OUTPUT POWER VARIATION (\pm dB)	OUTPUT POWER (dBm)
AGC-7-10.7/4A	10.7	4	-70 to 0	0.5	10
AGC-7-21.4/10A	21.4	10	-70 to 0	0.5	10
AGC-7-30/10A	30	10	-70 to 0	0.5	10
AGC-7-60/20A	60	20	-70 to 0	0.5	10
AGC-7-70/30A	70	30	-70 to 0	1	5
AGC-7-140/40A	140	40	-70 to 0	1	5
AGC-7-160/40A	160	40	-70 to 0	1	5
AGC-7-300/400A	300	400	-65 to 0	1.5	3

ADDITIONAL SPECIFICATIONS

The above models are available in 'A' housing.

Custom housing and electrical specifications are also available. Contact factory for details.

Output power and output power variation is measured at center frequency and 25°C.

Additional output power variation of ± 0.5 dB will occur over operating temperature of -40 to +85°C.

Input/output impedance is 50 Ω .

Input VSWR is < 1.5:1 typical.

Output VSWR is < 2.0:1 typical.

Noise figure is < 6 dB at center frequency and 25°C.

Acquisition time is < 500 μ s typically at -30 dBm.

Power: ± 12 VDC at 300 mA typical for models up to 160 MHz and 350 mA typical for 300 MHz model.

ORDER OPTIONS

For ± 15 VDC, add suffix "C".

All units are available in phase and gain tracking sets up to three channels to within $\pm 5^\circ$ and ± 1 dB at 25°C.

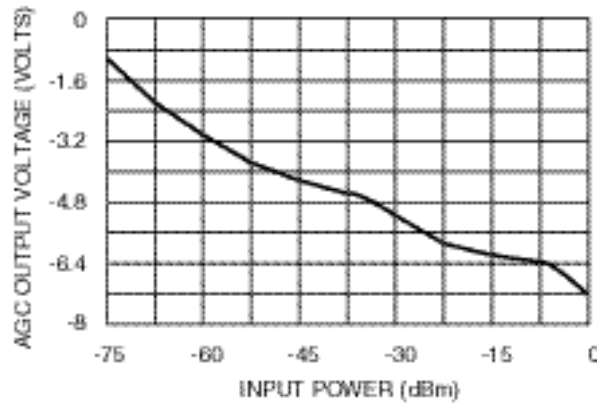
Typical part number: AGC-7-160/40AC (for 'A' housing at ± 15 VDC).

NOTE: FOR MODIFICATION OF OUR STANDARD MODELS, PLEASE CONSULT FACTORY.



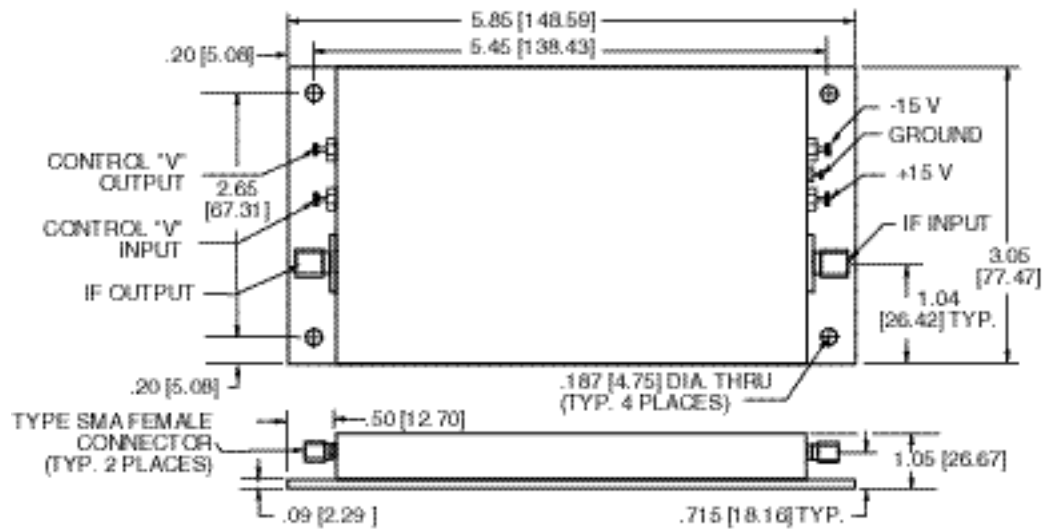
AGC SERIES TYPICAL TEST DATA

**TYPICAL MONITOR VS. GAIN
(OUTPUT POWER 3 dBm NOMINAL)**



AGC SERIES OUTLINE DRAWING

OUTLINE A



NOTE: DIMENSIONS SHOWN IN BRACKETS [] ARE IN MILLIMETERS.

