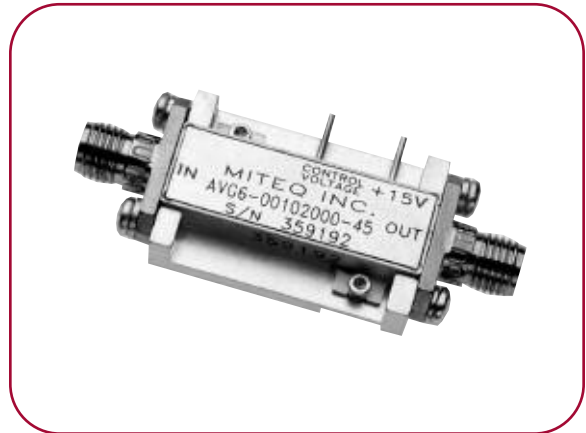


# VARIABLE GAIN AMPLIFIERS

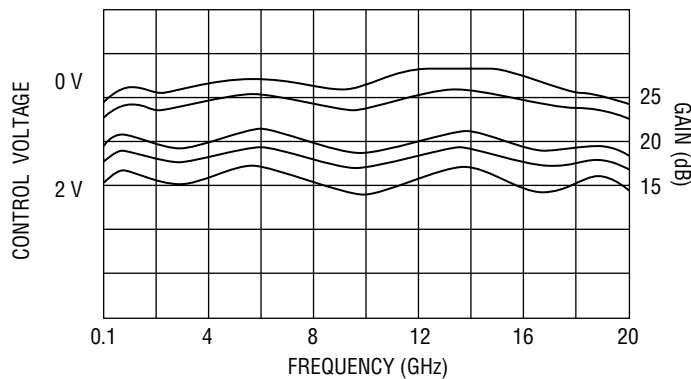
## AVG SERIES

### FEATURES

- Gain can be adjusted continuously (0–15 dB) by applying a DC control voltage to the control pin with an external resistor in series (x 470 ohms)
- Covers entire 0.1–20 GHz range
- Ideal for broadband receiver AGC and CFAR circuits
- Various bandwidth, gain, noise figure, and power options are available



### TYPICAL DATA



MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (+15 V, mA)
AVG4-00100400-14	0.1–4	32	1	1.4*	2:1	10	120
AVG4-00100600-15	0.1–6	32	1	1.5*	2:1	10	120
AVG4-00100800-18	0.1–8	32	1.5	1.8*	2:1	10	120
AVG4-02000800-20	2–8	32	1.25	2	2:1	10	120
AVG6-00102000-45	0.1–20	24	2.5	4.5*	2.5:1	10	250
AVG4-06001200-19	6–12	24	1.5	1.9	2:1	10	175
AVG4-06001800-25	6–18	22	2	2.5	2.3:1	10	185
AVG4-02001800-40	2–18	25	2.25	4	2.5:1	10	180

\* Noise figure increases below 500 MHz.  
 NOTES: All above specifications at 0 dB attenuation.  
 See page 66 for outline.