

# PULSE MODULATED AND POWER GATED AMPLIFIERS

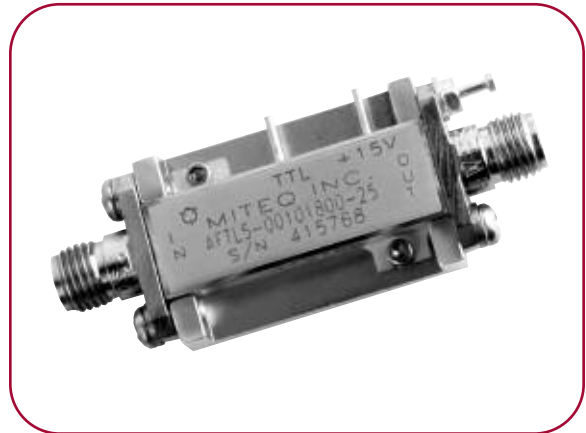
## AFSW/AFTL SERIES

### FEATURES PULSE MODULATED

- Modulation rates up to 500 kHz PRF
- Video leakage approximately 250 mV
- Rise time ..... < 50 ns
- Fall time ..... < 250 ns

### POWER GATED

- Power can be turned “on” or “off” by applying a TTL signal
- On/off rates up to 10 kHz
- Rise time ..... < 1.2  $\mu$ s
- Fall time ..... < 3.5  $\mu$ s

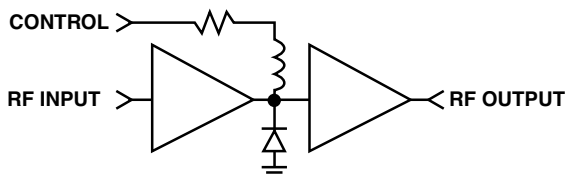


MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS ( $\pm$ dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (+15 V, mA)
<b>PULSE MODULATED AMPLIFIERS</b>							
AFSW3-04000800-10	4-8	30	1	1	2:1	10	125
AFSW4-08001200-11	8-12	32	1	1.1	2:1	10	150
AFSW3-02000800-15	2-8	26	1	1.5	2:1	10	125
AFSW3-00100600-16	0.1-6	28	1.2	1.6	2:1	10	125
AFSW3-00100800-20	0.1-8	26	1.2	2	2:1	10	125
AFSW4-00101200-30	0.1-12	26	1.5	3*	2:1	10	150
AFSW5-00101800-35	0.1-18	25	2	3.5*	2.2:1	10	200
<b>POWER GATED AMPLIFIERS</b>							
AFTL3-04000800-09	4-8	30	1	0.9	2:1	10	125
AFTL4-08001200-11	8-12	32	1	1.1	2:1	10	150
AFTL3-02000800-15	2-8	26	1	1.5	2:1	10	125
AFTL3-00100600-16	0.1-6	28	1.25	1.6	2:1	10	125
AFTL3-00100800-20	0.1-8	26	1.25	2	2:1	10	125
AFTL4-00101200-30	0.1-12	26	1.5	3*	2:1	10	150
AFTL5-00101800-35	0.1-18	25	2	3.5*	2.2:1	10	200
AFTL5-00101800-25	0.1-18	25	2.25	2.5*	2:1	10*	200
AFTL4-00102650-40	0.1-26.5	18	2.5	4*	2.5:1	8*	150

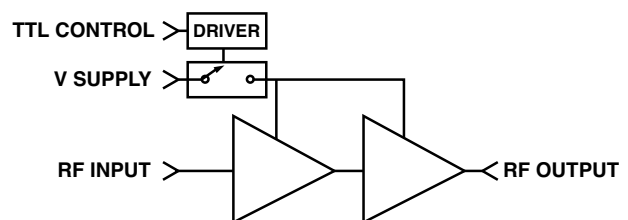
\* Above 500 MHz.  
NOTE: See pages 66 and 68 for outlines.

### BLOCK DIAGRAMS

#### PULSE MODULATED



#### POWER GATED



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