

Specifications

Parameter	Performance
Center frequency (Fc)	See Table A
RF output power	See Table A
RF output power stability	+/- 5% over heat sink temperature range
Input voltage +Vcc	24VDC +/- 0.5V measured at input while driver in operation
Supply Current	See Table B
2nd harmonic level	< -17dBc
Output VSWR	1.5:1 max; 50 Ohms
Output waveform	Sinusoidal
Rise / Fall time Analog	4 nsec typ., 8 nsec max (freq. ≥ 200 MHz)
Rise / Fall time Digital	25 nsec max
Contrast ratio	50 dB min
Analog input voltage	0 – 1 V
Analog input impedance	50 Ohms
Digital input voltage	TTL (5V) or LVTTTL (3.3V) (VIH = 2.0V, VIL = 0.8V)
Digital input impedance	10k Ohms
Frequency stability	+/- 5 ppm over temp
Frequency accuracy	+/- 5 ppm
Jitter	0.3 psec typ.
Phase Noise	-105 dBc/Hz at 10kHz offset
Thermal management	Conduction cooled
Operating temperature range	+10°C to +60°C (referenced to mounting tab) Unit will operate down to 0°C, in a non-condensing environment

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Table A

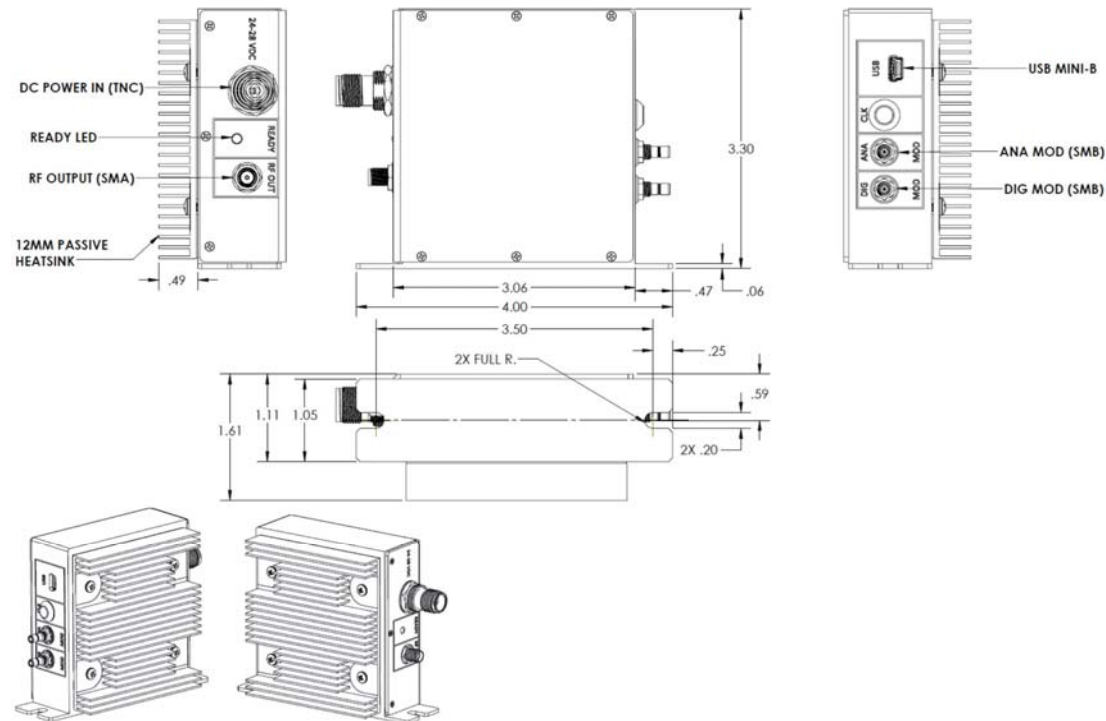
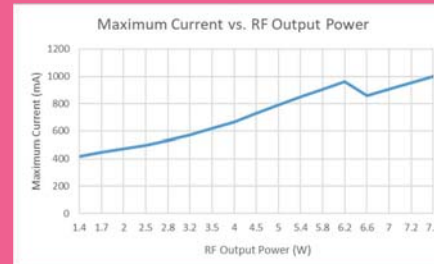
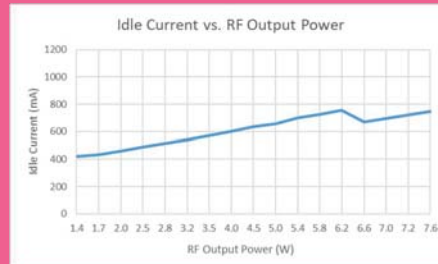
Part Number	Freq Center (MHz)	Modulation	RF Power (Watts)	Model
97-03942-01	250	Combined	6	1250AFP-AD-6.0
97-03942-02	300	Combined	5	1300AFP-AD-5.0
97-03942-03	250	Digital	6.6	1250AFP-D-6.6
97-03942-04	250	Combined	6.6	1250AFP-AD-6.6
97-03942-05	200	Combined	4	1200AFP-AD-4.0
97-03942-06	300	Digital	5	1300AFP-D-5.0
97-03942-07	200	Combined	5	1200AFP-AD-5.0
97-03942-08	200	Analog	2	1200AFP-A-2.0
97-03942-09	300	Analog	5	1300AFP-A-5.0
97-03942-10	200	Combined	6	1200AFP-AD-6.0
97-03942-11	389.5	Analog	8	1389.5AFP-A-8.0
97-03942-12	300	Digital	3	1300AFP-D-3.0
97-03942-13	389.5	Combined	9	1389.5AFP-AD-9.0
97-03942-14	250	Digital	6	1250AFP-D-6.0
97-03942-15	200	Digital	5	1200AFP-D-5.0
97-03942-16	250	Analog	6.6	1250AFP-A-6.6

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Table B



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