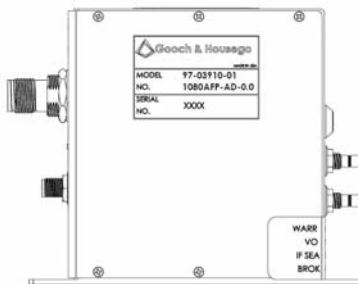




97-03911-XX Driver Specifications

100-199MHz, 0-3W RF Power, Internal Clock



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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Control

Table A

Part Number	Freq Center (MHz)	Modulation	RF Power (Watts)	Model
97-03911-01	189	Combined	1	1189AFP-AD-1.0
97-03911-02	110	Combined	2.5	1110AFP-AD-2.5
97-03911-03	151.5	Combined	1	1151.5AFP-AD-1.0
97-03911-04	110	Analog	2.5	1110AFP-A-2.5
97-03911-05	110	Combined	1.5	1110AFP-AD-1.5
97-03911-06	175	Combined	2.5	1175AFP-AD-2.5
97-03911-07	150	Digital	2	1150AFP-D-2.0
97-03911-08	110	Digital	1.5	1110AFP-D-1.5
97-03911-09	150	Analog	2	1150AFP-A-2.0
97-03911-10	150	Combined	1	1150AFP-AD-1.0
97-03911-11	100	Combined	1	1100AFP-AD-1.0
97-03911-12	150	Combined	2	1150AFP-AD-2.0
97-03911-13	175	Digital	2.5	1175AFP-D-2.5
97-03911-14	150	Combined	2.5	1150AFP-AD-2.5
97-03911-15	125	Combined	2	1125AFP-AD-2.0
97-03911-16	110	Combined	0.5	1110AFP-AD-0.5
97-03911-17	100	Digital	1	1100AFP-D-1.0
97-03911-18	150	Digital	1	1150AFP-D-1.0
97-03911-19	150	Analog	1	1150AFP-A-1.0
97-03911-20	110	Combined	1	1110AFP-AD-1.0
97-03911-21	110	Combined	0	1110AFP-AD-0.0
97-03911-22	190	Digital	2.5	1190AFP-D-2.5
97-03911-23	170	Combined	0	1170AFP-AD-0.0

Table A

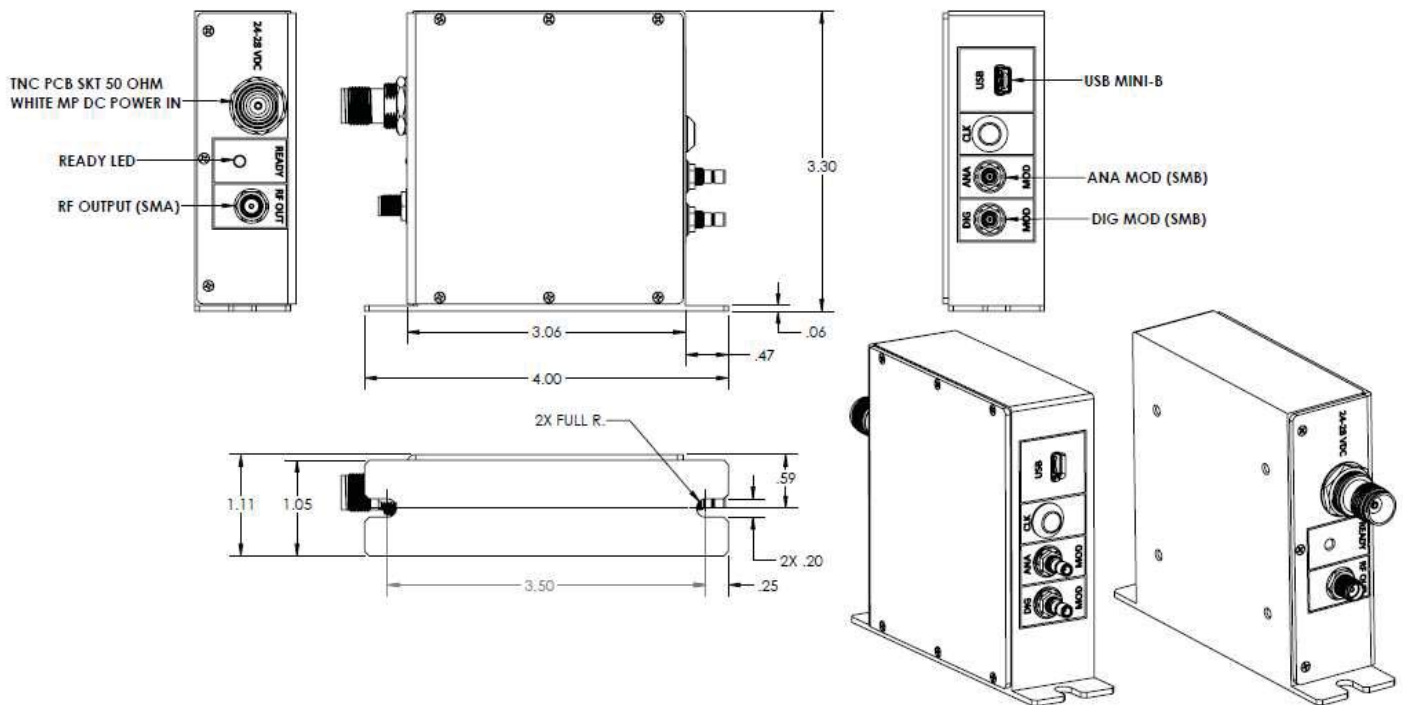
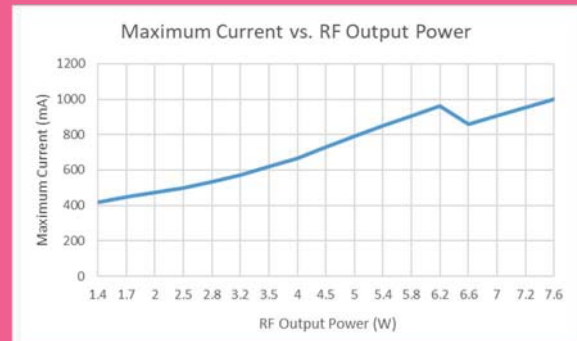
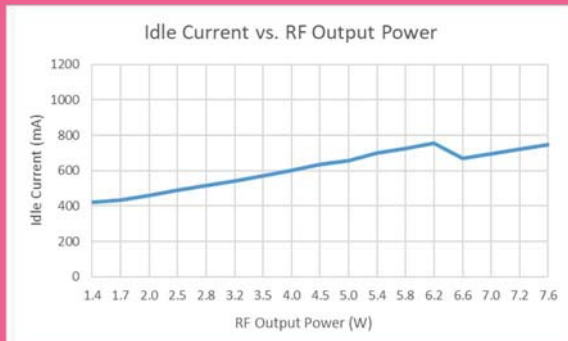
Part Number	Freq Center (MHz)	Modulation	RF Power (Watts)	Model
97-03911-24	100	Analog	1	1100AFP-A-1.0
97-03911-25	189	Combined	1	1189AFP-AD-1.0-H
97-03911-26	110	Analog	1.5	1110AFP-A-1.5
97-03911-27	100	Combined	1.5	1100AFP-AD-1.5
97-03911-28	110	Digital	2.5	1110AFP-D-2.5
97-03911-29	170	Combined	1	1170AFP-AD-1.0
97-03911-30	180	Combined	1	1180AFP-AD-1.0
97-03911-31	100	Digital	2.5	1100AFP-D-2.5
97-03911-32	195	Analog	1	1195AFP-A-1.0
97-03911-33	150	Analog	2.5	1150AFP-A-2.5
97-03911-34	120	Combined	2	1120AFP-AD-2.0
97-03911-35	110	Analog	0.5	1110AFP-A-0.5
97-03911-36	110	Digital	0.5	1110AFP-D-0.5

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Table B



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