



97-03952-XX Driver Specifications

200-350MHz, 0-3W RF Power, External Clock

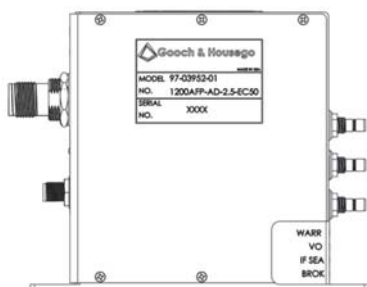


Table A

Part Number	Center Freq (MHz)	Modulation	RF Power (Watts)	Ext Clock Freq (MHz)	Model
97-03952-01	200	Combined	2.5	50	1200AFP-AD-2.5-EC50
97-03952-02	200	Combined	2.5	81.408	1200AFP-AD-2.5-EC81.408
97-03952-03	200	Combined	2.5	10	1200AFP-AD-2.5-EC10
97-03952-04	200	Combined	2.5	100	1200AFP-AD-2.5-EC100
97-03952-05	350	Combined	2.5	10	1350AFP-AD-2.5-EC10
97-03952-06	200	Combined	1	10	1200AFP-AD-1.0-EC10
97-03952-07	200	Combined	2.5	25	1200AFP-AD-2.5-EC25
97-03952-08	200	Combined	1.5	10	1200AFP-AD-1.5-EC10
97-03952-09	200	Combined	2.5	20	1200AFP-AD-2.5-EC20
97-03952-10	200	Combined	1	200	1200AFP-AD-1.0-EC200

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	4 nsec typ., 8 nsec max (freq. ≥ 200 MHz)
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
Thermal management	Conduction cooled
Operating temperature range	+10°C to +60°C (at mounting tab). Unit will operate to 0°C, non-condensing environment
External Clock Frequency	10MHz – 250MHz
External Clock Level	1V – 3V Peak to Peak

* Recommended External Clock Characteristic Performance Parameters.

Table B

Idle Current vs. RF Output Power

RF Output Power (W)	Idle Current (mA)
1.4	400
1.7	420
2.0	450
2.5	500
2.8	530
3.2	560
3.5	590
4.0	620
4.5	650
5.0	660
5.4	690
5.8	720
6.2	750
6.6	660
7.0	700
7.2	720
7.6	750

Maximum Current vs. RF Output Power

RF Output Power (W)	Maximum Current (mA)
1.4	400
1.7	420
2.0	450
2.5	500
2.8	530
3.2	560
3.5	590
4.0	620
4.5	650
5.0	680
5.4	710
5.8	740
6.2	770
6.6	850
7.0	900
7.2	950
7.6	1000

