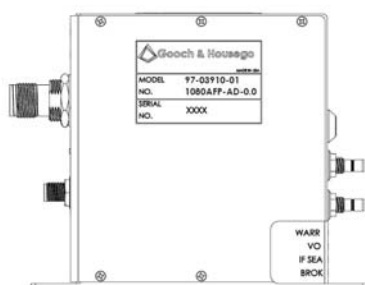


## 97-03910-XX Driver Specifications

40-149MHz, 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            | 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                                                                                                     |
| 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)<br>Unit will operate down to 0°C, in a non-condensing environment |

Table A

| Part Number | Freq Center (MHz) | Modulation | RF Power (Watts) | Model          |
|-------------|-------------------|------------|------------------|----------------|
| 97-03910-01 | 80                | Combined   | 0                | 1080AFP-AD-0.0 |
| 97-03910-02 | 40                | Combined   | 0.4              | 1040AFP-AD-0.4 |
| 97-03910-03 | 80                | Combined   | 1                | 1080AFP-AD-1.0 |
| 97-03910-04 | 40                | Analog     | 0.5              | 1040AFP-A-0.5  |
| 97-03910-05 | 80                | Analog     | 2.5              | 1080AFP-A-2.5  |
| 97-03910-06 | 80                | Analog     | 1                | 1080AFP-A-1.0  |
| 97-03910-07 | 80                | Combined   | 2.5              | 1080AFP-AD-2.5 |
| 97-03910-08 | 80                | Digital    | 1                | 1080AFP-D-1.0  |
| 97-03910-09 | 80                | Digital    | 2                | 1080AFP-D-2.0  |
| 97-03910-10 | 80                | Digital    | 2.5              | 1080AFP-D-2.5  |
| 97-03910-11 | 80                | Combined   | 2                | 1080AFP-AD-2.0 |
| 97-03910-12 | 79                | Analog     | 1                | 1079AFP-A-1.0  |
| 97-03910-13 | 80                | Analog     | 1.5              | 1080AFP-A-1.5  |
| 97-03910-14 | 80                | Combined   | 1.5              | 1080AFP-AD-1.5 |
| 97-03910-15 | 85                | Combined   | 1                | 1085AFP-AD-1.0 |
| 97-03910-16 | 77                | Analog     | 0.4              | 1077AFP-A-0.4  |
| 97-03910-17 | 80                | Combined   | 0.4              | 1080AFP-AD-0.4 |
| 97-03910-18 | 55                | Combined   | 0.4              | 1055AFP-AD-0.4 |
| 97-03910-19 | 79                | Digital    | 2                | 1079AFP-D-2.0  |
| 97-03910-20 | 95                | Combined   | 2                | 1095AFP-AD-2.0 |
| 97-03910-21 | 80                | Digital    | 3                | 1080AFP-D-3.0  |
| 97-03910-22 | 90                | Combined   | 1.5              | 1090AFP-AD-1.5 |
| 97-03910-23 | 80                | Digital    | 1.5              | 1080AFP-D-1.5  |
| 97-03910-24 | 80                | Digital    | 0.4              | 1080AFP-D-0.4  |
| 97-03910-25 | 40                | Digital    | 0.4              | 1040AFP-D-0.4  |
| 97-03910-26 | 80                | Analog     | 0.4              | 1080AFP-A-0.4  |
| 97-03910-27 | 81                | Digital    | 2                | 1081AFP-D-2.0  |
| 97-03910-28 | 80                | Analog     | 2                | 1080AFP-A-2.0  |
| 97-03910-29 | 40                | Analog     | 0.4              | 1040AFP-A-0.4  |

Table B

