



Specifications

Frequency Tuning Voltage vs. Frequency

Frequency(GHz)	Tuning Voltage(V)	Saturated Output Power(dBm)
59.8	2.828	36.35
60	3.817	36.39
60.2	4.808	36.53
60.4	5.796	36.42
60.6	6.785	36.28
60.8	7.776	36.65
61	8.766	36.66
61.2	9.768	36.47

*The built-in VCO has very high tuning linearity. Table 1 shows the tuning voltage vs. frequency over the 59.8 – 61.2 GHz range.

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Detector output voltage vs RF output power table

Power (dBm)	59.8 GHz	60.0 GHz	60.2 GHz	60.4 GHz	60.6 GHz	60.8 GHz	61.0 GHz	61.2 GHz
36	0.8012	0.7941	0.7923	0.7943	0.7988	0.8034	0.8038	0.8091
35	0.7109	0.7091	0.7089	0.7075	0.7094	0.7132	0.7165	0.7169
34	0.6298	0.6288	0.6287	0.6291	0.6315	0.6328	0.6348	0.6359
33	0.5683	0.5565	0.5561	0.5555	0.5569	0.5587	0.5601	0.5649
32	0.4921	0.4894	0.4899	0.4903	0.4918	0.4937	0.4981	0.5013
31	0.4361	0.4297	0.4288	0.4298	0.4334	0.4376	0.4382	0.4427
30	0.3765	0.3759	0.3758	0.3762	0.3779	0.3801	0.3833	0.3852
29	0.3275	0.3273	0.3271	0.3269	0.3278	0.3298	0.3318	0.3337
28	0.2839	0.2831	0.2834	0.2836	0.2842	0.2855	0.2869	0.2886
27	0.2463	0.2461	0.2461	0.2461	0.2466	0.2479	0.2489	0.2509
26	0.2121	0.2116	0.2117	0.2117	0.2121	0.2132	0.2141	0.2156
25	0.1828	0.1822	0.1822	0.1824	0.1828	0.1838	0.1846	0.1856
24	0.1567	0.1564	0.1565	0.1565	0.1568	0.1575	0.1582	0.1591
23	0.1341	0.1338	0.1339	0.1338	0.1342	0.1351	0.1356	0.1364
22	0.1139	0.1136	0.1137	0.1138	0.1141	0.1149	0.1153	0.1159
21	0.0973	0.0968	0.0969	0.0971	0.0973	0.0981	0.0986	0.0989
20	0.0828	0.0818	0.0817	0.0819	0.0821	0.0832	0.0839	0.0843
19	0.0691	0.0689	0.0687	0.0689	0.0692	0.0698	0.0705	0.0711
18	0.0586	0.0581	0.0582	0.0581	0.0583	0.0588	0.0593	0.0599
17	0.0488	0.0486	0.0486	0.0487	0.0489	0.0491	0.0492	0.0496
16	0.0411	0.0408	0.0408	0.0409	0.0411	0.0412	0.0414	0.0418
15	0.0345	0.0342	0.0343	0.0344	0.0344	0.0346	0.0348	0.0349
14	0.0283	0.0282	0.0282	0.0283	0.0283	0.0285	0.0286	0.0289
13	0.0237	0.0236	0.0237	0.0237	0.0237	0.0238	0.0239	0.0241
12	0.0198	0.0198	0.0197	0.0197	0.0198	0.0198	0.0198	0.0199
11	0.0164	0.0163	0.0163	0.0163	0.0164	0.0165	0.0167	0.0169
10	0.0138	0.0137	0.0136	0.0136	0.0136	0.0137	0.0138	0.0139
9	0.0114	0.0114	0.0113	0.0113	0.0114	0.0114	0.0113	0.0114
8	0.0096	0.0095	0.0095	0.0096	0.0095	0.0096	0.0096	0.0097
7	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079
6	0.0068	0.0067	0.0067	0.0068	0.0067	0.0068	0.0068	0.0068
5	0.0058	0.0058	0.0057	0.0058	0.0058	0.0058	0.0058	0.0058

*Table 2 shows the detector output voltage at different RF output power levels. The output power tuning range is over 30 dB.