

Mode 5: LTE Band 13
LTE Band 13 / 5 MHz / 779.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	-3.47	-0.0045
12.00	-1.91	-0.0025
10.20	-2.24	-0.0029

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	-1.87	-0.0024
-10	-1.41	-0.0018
0	-2.53	-0.0032
10	-3.31	-0.0042
20	-3.27	-0.0042
30	-2.10	-0.0027
40	-2.48	-0.0032
50	-2.41	-0.0031
60	-2.42	-0.0031
65	-2.44	-0.0031

LTE Band 13 / 5 MHz / 782 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.22	0.0028
12.00	3.00	0.0038
10.20	3.07	0.0039

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	3.25	0.0042
-10	3.06	0.0039
0	2.24	0.0029
10	2.92	0.0037
20	3.10	0.0040
30	1.88	0.0024
40	2.40	0.0031
50	2.64	0.0034
60	2.92	0.0037
65	2.36	0.0030

LTE Band 13 / 5 MHz / 784.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	-1.61	-0.0021
12.00	-1.15	-0.0015
10.20	-1.74	-0.0022

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	-0.78	-0.0010
-10	-2.02	-0.0026
0	-2.39	-0.0030
10	-2.34	-0.0030
20	-2.11	-0.0027
30	-1.88	-0.0024
40	-1.81	-0.0023
50	-1.95	-0.0025
60	-1.83	-0.0023
65	-1.69	-0.0022

LTE Band 13 / 10 MHz / 782 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.55	0.0033
12.00	2.28	0.0029
10.20	1.64	0.0021

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.22	0.0028
-10	1.64	0.0034
0	1.91	0.0021
10	2.12	0.0028
20	2.36	0.0030
30	2.36	0.0030
40	2.45	0.0031
50	0.84	0.0011
60	1.32	0.0017
65	1.50	0.0019

Mode 6: LTE Band 26 (Part 90)**LTE Band 26 / 1.4 MHz / 814.7 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.30	0.0016
12.00	2.13	0.0026
10.20	1.63	0.0020

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.52	0.0031
-10	2.41	0.0030
0	1.81	0.0022
10	1.27	0.0016
20	0.88	0.0011
30	1.17	0.0014
40	1.74	0.0021
50	1.16	0.0014
60	1.35	0.0017
65	2.79	0.0034

LTE Band 26 / 1.4 MHz / 819 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.82	0.0034
12.00	3.12	0.0038
10.20	2.92	0.0036

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.11	0.0026
-10	2.16	0.0026
0	3.16	0.0039
10	3.88	0.0047
20	2.06	0.0025
30	2.00	0.0024
40	2.35	0.0029
50	3.08	0.0038
60	2.58	0.0032
65	2.75	0.0034

LTE Band 26 / 1.4 MHz / 823.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.35	0.0029
12.00	2.11	0.0026
10.20	2.71	0.0033

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	0.94	0.0011
-10	2.05	0.0025
0	2.74	0.0033
10	0.96	0.0012
20	2.00	0.0024
30	2.00	0.0024
40	1.21	0.0015
50	0.56	0.0007
60	1.82	0.0022
65	1.30	0.0016

LTE Band 26 / 3 MHz / 815.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.66	0.0020
12.00	2.27	0.0028
10.20	0.97	0.0012

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.24	0.0027
-10	1.96	0.0024
0	2.64	0.0032
10	1.60	0.0020
20	1.28	0.0016
30	1.87	0.0023
40	0.65	0.0008
50	2.41	0.0030
60	1.29	0.0016
65	1.64	0.0020

LTE Band 26 / 3 MHz / 819 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.08	0.0013
12.00	1.55	0.0019
10.20	0.81	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.09	0.0013
-10	1.46	0.0018
0	1.17	0.0014
10	0.06	0.0001
20	0.90	0.0011
30	1.18	0.0014
40	0.98	0.0012
50	0.14	0.0002
60	0.85	0.0010
65	0.56	0.0007

LTE Band 26 / 3 MHz / 822.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	0.91	0.0011
12.00	2.59	0.0031
10.20	2.52	0.0031

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.02	0.0025
-10	2.66	0.0032
0	2.72	0.0033
10	1.72	0.0021
20	2.08	0.0025
30	1.96	0.0024
40	2.33	0.0028
50	1.75	0.0021
60	2.41	0.0029
65	2.51	0.0031

LTE Band 26 / 5 MHz / 816.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.42	0.0030
12.00	2.11	0.0026
10.20	1.29	0.0016

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.65	0.0020
-10	0.96	0.0012
0	1.61	0.0020
10	0.92	0.0011
20	2.41	0.0030
30	1.75	0.0021
40	2.13	0.0026
50	1.44	0.0018
60	1.29	0.0016
65	1.49	0.0018

LTE Band 26 / 5 MHz / 819 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	-1.58	-0.0019
12.00	-1.23	-0.0015
10.20	-1.84	-0.0022

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	-2.20	-0.0027
-10	-2.23	-0.0027
0	-1.59	-0.0019
10	-2.14	-0.0026
20	-1.80	-0.0022
30	-1.34	-0.0016
40	-1.31	-0.0016
50	-1.34	-0.0016
60	-1.32	-0.0016
65	-0.66	-0.0008

LTE Band 26 / 5 MHz / 821.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	0.97	0.0012
12.00	2.58	0.0031
10.20	2.00	0.0024

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.39	0.0029
-10	1.97	0.0024
0	2.22	0.0027
10	2.65	0.0032
20	2.77	0.0034
30	2.64	0.0032
40	2.47	0.0030
50	1.82	0.0022
60	2.93	0.0036
65	2.55	0.0031

LTE Band 26 / 10 MHz / 819 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.29	0.0016
12.00	1.47	0.0018
10.20	1.36	0.0017

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	0.57	0.0007
-10	1.82	0.0022
0	0.81	0.0010
10	0.85	0.0010
20	1.00	0.0012
30	0.60	0.0007
40	1.46	0.0018
50	1.24	0.0015
60	0.47	0.0006
65	1.20	0.0015

Mode 7: LTE Band 71
LTE Band 71 / 5 MHz / 665.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	-1.59	-0.0024
12.00	-1.24	-0.0019
10.20	-2.02	-0.0030

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	-1.02	-0.0015
-10	-1.58	-0.0024
0	-1.68	-0.0025
10	-1.78	-0.0027
20	-2.31	-0.0035
30	-1.18	-0.0018
40	-2.27	-0.0034
50	-1.42	-0.0021
60	-1.17	-0.0018
65	-1.94	-0.0029

LTE Band 71 / 5 MHz / 680.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.91	0.0028
12.00	1.92	0.0028
10.20	1.34	0.0020

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.77	0.0026
-10	1.09	0.0016
0	1.32	0.0019
10	1.24	0.0018
20	0.97	0.0014
30	1.25	0.0018
40	0.53	0.0008
50	1.92	0.0028
60	2.13	0.0031
65	0.65	0.0010

LTE Band 71 / 5 MHz / 695.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.09	0.0030
12.00	3.22	0.0046
10.20	2.05	0.0029

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	3.10	0.0045
-10	2.77	0.0040
0	2.46	0.0035
10	2.33	0.0034
20	3.35	0.0048
30	2.80	0.0040
40	2.76	0.0040
50	2.42	0.0035
60	3.05	0.0044
65	2.70	0.0039

LTE Band 71 / 10 MHz / 668 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.13	0.0012
12.00	1.51	0.0017
10.20	2.25	0.0017

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.21	0.0017
-10	1.99	0.0008
0	2.17	0.0011
10	2.63	0.0013
20	2.67	0.0015
30	1.76	0.0017
40	2.02	0.0012
50	1.68	0.0015
60	2.17	0.0019
65	1.00	0.0012

LTE Band 71 / 10 MHz / 680.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.80	0.0009
12.00	2.23	0.0014
10.20	2.53	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.92	0.0011
-10	1.51	0.0010
0	2.18	0.0014
10	2.87	0.0011
20	1.74	0.0006
30	2.33	0.0012
40	2.69	0.0009
50	2.74	0.0013
60	2.28	0.0007
65	1.88	0.0010

LTE Band 71 / 10 MHz / 693 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.66	0.0018
12.00	1.52	0.0016
10.20	2.96	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.77	0.0016
-10	1.50	0.0014
0	1.72	0.0011
10	2.95	0.0009
20	1.91	0.0013
30	1.92	0.0014
40	1.93	0.0015
50	1.74	0.0013
60	1.90	0.0018
65	1.64	0.0034

LTE Band 71 / 15 MHz / 670.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.14	0.0032
12.00	2.24	0.0033
10.20	1.85	0.0028

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.12	0.0032
-10	1.91	0.0028
0	2.65	0.0040
10	0.72	0.0011
20	1.17	0.0017
30	2.38	0.0035
40	1.92	0.0029
50	1.22	0.0018
60	1.98	0.0030
65	1.78	0.0027

LTE Band 71 / 15 MHz / 680.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.84	0.0027
12.00	2.67	0.0039
10.20	1.86	0.0027

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.93	0.0028
-10	1.82	0.0027
0	2.23	0.0033
10	1.88	0.0028
20	3.12	0.0046
30	2.12	0.0031
40	2.44	0.0036
50	2.45	0.0036
60	1.69	0.0025
65	2.06	0.0030

LTE Band 71 / 15 MHz / 690.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.76	0.0040
12.00	3.12	0.0045
10.20	1.78	0.0026

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	3.22	0.0047
-10	1.94	0.0028
0	3.21	0.0046
10	2.94	0.0043
20	3.08	0.0045
30	2.88	0.0042
40	2.63	0.0038
50	2.98	0.0043
60	2.66	0.0039
65	2.44	0.0035

LTE Band 71 / 20 MHz / 673 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	0.66	0.0010
12.00	1.59	0.0024
10.20	1.41	0.0021

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.68	0.0025
-10	0.66	0.0010
0	0.54	0.0008
10	1.17	0.0017
20	1.07	0.0016
30	0.39	0.0006
40	1.89	0.0028
50	1.29	0.0019
60	1.67	0.0025
65	1.33	0.0020

LTE Band 71 / 20 MHz / 683 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.73	0.0025
12.00	1.95	0.0029
10.20	1.31	0.0019

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.78	0.0026
-10	1.16	0.0017
0	1.43	0.0021
10	0.69	0.0010
20	1.37	0.0020
30	1.57	0.0023
40	2.01	0.0029
50	0.29	0.0004
60	2.01	0.0029
65	1.50	0.0022

LTE Band 71 / 20 MHz / 688 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.75	0.0040
12.00	2.89	0.0042
10.20	2.12	0.0031

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	2.38	0.0035
-10	1.99	0.0029
0	2.83	0.0041
10	1.97	0.0029
20	2.82	0.0041
30	1.91	0.0028
40	2.94	0.0043
50	1.98	0.0029
60	3.51	0.0051
65	2.94	0.0043