

1 GENERAL INFORMATION

PERFORMANCE SPECIFICATIONS

Model	Frequency Range (GHz)	Output Power (25°C ±5°C)			Power Level Accuracy			Leveled Power Variation			Signal Purity @ Rated Power			Frequency Accuracy <sup>2)</sup>			Frequency Stability	
		Internally Leveled (dBm)	With Opt. 2, 70 dB Attenuator (mW)	With Opt. 2, 70 dB Attenuator (dB)	Leveled (dB)	With Opt. 2, 70 dB Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	Attenuator Accuracy Add (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)	With Frequency Attenuator (dB)
6609B	0.01 to 2	>20	>17.8	±0.8	±0.6	±0.3	±0.8	±0.3	1.3	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6609B-50	>50	>44.5																
6610B	1 to 2	>20	>17.8	±1.5	±1	±0.3	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6610B-50	>50	>44.5																
6617B	1.7 to 4.3	>10	>7.8	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6617B-40	>40	>31.6																
6619B	2 to 8	>10	>7.9	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6619B-40	>40	>31.6																
6620B	3.6 to 6.5	>20	>15.6	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6620B-50	>50	>44.5																
6621B	2 to 12.4	>10	>7.4	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6621B-40	>40	>31.6																
6622B	0.01 to 12.4	>10	>7.4	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6622B-40	>40	>31.6																
6624B	4 to 8	>10	>7.8	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6627B	5.9 to 9.0	>10	>7.8	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6628B	8 to 12.4	>10	>7.4	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6629B-50	>50	>37.2																
6629B	8 to 20	>10	>6.6	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6629B-40	>40	>31.6																
6630B	12.4 to 20	>10	>6.6	±1.5	±1	±0.4	±0.5	±0.4	1.2	1.5	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
6630B-50	>50	>37.2																
6631B	10 to 15.5	>10	>7	±3	±1	±0.7	±0.8	±0.7	1.7	2	±2	±1.8	±1.8	±1.8	±1.8	±1.8	±1.8	±1.8
6632B	17 to 22	>10	>6.3	±1.5	±1	±0.4	±0.5	±0.4	1.5	1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5
6633B	2 to 18	>10	>6.6	±1.5	±1	±0.4	±0.5	±0.4	1.5	1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5
6635B-40	>40	>31.6																
6636B	18 to 26.5	>10	>6.3	±3	±1	±0.7	±1	±0.7	1.7	2	±2	±1.8	±1.8	±1.8	±1.8	±1.8	±1.8	±1.8
6637B	2 to 20	>10	>6.6	±1.5	±1	±0.4	±0.5	±0.4	1.5	1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5
6637B-40	>40	>31.6																
6640B	26.5 to 40	>10	>5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6640B-10	>10	>5																
6645B	>10	>6.6																
6645B-40	>40	>31.6																
6647B	>10	>6.6																
6647B-40	>40	>31.6																
6653B	2 to 26.5	>10 (>18 GHz) >10 (>18 GHz)	>5 (>18 GHz) >2 (>18 GHz)	±2.0	±1.5	±0.7	±1.0	±0.7	1.5 (>18 GHz) 1.7 (>18 GHz)	1.5 (>18 GHz) 1.7 (>18 GHz)	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5
6659B	0.01 to 26.5	>10 (>18 GHz) >5 (>18 GHz)	>5 (>18 GHz) >2 (>18 GHz)	±2.0	±1.5	±0.7	±1.0	±0.7	1.5 (>18 GHz) 1.7 (>18 GHz)	1.5 (>18 GHz) 1.7 (>18 GHz)	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5
6660B	12.4 to 40	>4	>2	±2.5	±2	±1	±1.5	±1	1.5 (>18 GHz) 1.7 (>18 GHz) 2 (>26.5 GHz)	1.5 (>18 GHz) 1.7 (>18 GHz) 2 (>26.5 GHz)	±2	±2	±2	±2	±2	±2	±2	±2
6662B <sup>3)</sup>	2 to 40	>10 (>18 GHz) >4 (>18 GHz)	N/A	N/A	±1.5	N/A (>26.5 GHz)	±1	N/A	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6663B	>10	>3.1	>1.5	±2	±1.5	±1	±1.5	±1	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	±1	±1	±1	±1	±1	±1	±1	±1
6668B <sup>6)</sup>	0.01 to 40	>10 (>18 GHz) >4 (>18 GHz)	N/A	N/A	±1.5	N/A (>26.5 GHz) <sup>5)</sup>	±1	N/A	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6669B	>10	>1.5	>1.5	±2	±1.5	±1	±1.5	±1	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	1.25 (>8 GHz) 1.45 (>8-12.4 GHz) 1.6 (>12.4-20 GHz) 1.8 (>20-26.5 GHz) 2.1 (>26.5-40 GHz)	±1	±1	±1	±1	±1	±1	±1	±1
6672B	40 to 60	>10 <sup>1)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Figure 1-2. Performance Specifications

1) External leveling only 2) Excluding 5% band edges where specification is >20 dBc 3) Measured in 30 Hz-15 kHz bandwidth 4) Subharmonics 5) At 25°C 6) Dual outputs: 0.01-26.5 GHz and 26.5-40 GHz 7) Dual outputs: 2-26.5 GHz and 26.5-40 GHz