

Typical Performance Data

Definitions:

Input Return Loss = S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: VDD = +6 V, IDD = 160 mA @ Temperature = -55°C

Table with 11 columns: FREQ (GHz), Gain (dB), Isolation (dB), Input Return Loss (dB), Output Return Loss (dB), Stability (K, Measure), 1dB Comp. Output (dBm), Psat Output (dBm), IP-3 Output (dBm), Noise Figure (dB). Rows represent frequency points from 16.0 GHz to 34.0 GHz.



Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{DD} = +6 V, I_{DD} = 160 mA @ Temperature = +25°C

Power	P _{OUT} (@17 GHz)	P _{OUT} (@24 GHz)	P _{OUT} (@30 GHz)	P _{OUT} (@32 GHz)	I _{DD} (@17 GHz)	I _{DD} (@24 GHz)	I _{DD} (@30 GHz)	I _{DD} (@32 GHz)	Gain (@17 GHz)	Gain (@24 GHz)	Gain (@30 GHz)	Gain (@32 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(mA)	(mA)	(mA)	(mA)	(dBm)	(dBm)	(dBm)	(dBm)
-10	8.6	8.91	10.76	5.68	162.54	162.46	162.67	160.74	20.92	20.80	23.82	18.25
-9	9.62	9.92	11.78	6.65	163.1	163.04	163.47	160.91	20.92	20.79	23.83	18.23
-8	10.61	10.93	12.79	7.63	163.82	163.75	164.49	161.18	20.91	20.80	23.84	18.22
-7	11.61	11.94	13.8	8.61	164.72	164.64	165.83	161.54	20.91	20.80	23.86	18.21
-6	12.61	12.93	14.83	9.61	165.91	165.81	167.56	162	20.90	20.79	23.88	18.21
-5	13.62	13.92	15.86	10.6	167.42	167.28	169.78	162.62	20.90	20.78	23.91	18.21
-4	14.61	14.91	16.91	11.59	169.36	169.16	172.6	163.56	20.89	20.78	23.94	18.20
-3	15.6	15.91	18	12.58	171.8	171.5	176.11	164.87	20.88	20.78	24.02	18.19
-2	16.59	16.92	19.13	13.59	174.9	174.39	180.58	166.71	20.88	20.80	24.13	18.17
-1	17.6	17.95	20.29	14.57	178.77	177.93	186.19	168.98	20.89	20.85	24.24	18.15
0	18.63	19	21.4	15.54	183.48	182.17	193.31	171.92	20.92	20.91	24.33	18.12
1	19.67	20.16	22.34	16.5	189.13	187.75	203.02	175.82	20.95	20.98	24.23	18.09
1.2	19.88	20.38	22.49	16.69	190.39	188.87	205.35	176.78	20.95	20.99	24.17	18.09
1.4	20.08	20.58	22.62	16.88	191.68	190.01	207.77	177.79	20.94	20.99	24.10	18.08
1.6	20.28	20.78	22.74	17.08	193.01	191.17	210.3	178.85	20.93	20.99	24.02	18.08
1.8	20.53	20.97	22.84	17.27	194.72	192.36	212.9	179.97	20.91	20.98	23.92	18.07
2	20.73	21.16	22.93	17.47	196.11	193.6	215.61	181.18	20.89	20.96	23.81	18.07
2.2	20.91	21.33	23.01	17.67	197.54	194.86	218.37	182.44	20.85	20.93	23.69	18.07
2.4	21.09	21.5	23.08	17.87	198.94	196.16	221.19	183.75	20.81	20.90	23.56	18.07
2.6	21.27	21.66	23.14	18.08	200.35	197.5	224.06	185.11	20.77	20.86	23.42	18.08
2.8	21.44	21.81	23.19	18.28	201.7	198.87	226.99	186.55	20.72	20.80	23.27	18.08
3	21.59	21.95	23.24	18.48	203.04	200.29	229.92	188.1	20.66	20.74	23.11	18.09
3.2	21.74	22.08	23.28	18.69	204.31	201.79	232.78	189.75	20.60	20.66	22.96	18.10
3.4	21.89	22.2	23.31	18.9	205.6	203.34	235.5	191.49	20.52	20.59	22.79	18.11
3.6	22.03	22.31	23.35	19.11	206.89	204.98	238.06	193.36	20.44	20.50	22.55	18.12
3.8	22.16	22.42	23.38	19.31	208.25	206.71	240.43	195.37	20.36	20.40	22.32	18.12
4	22.29	22.51	23.41	19.51	209.67	208.53	242.6	197.48	20.27	20.29	21.77	18.12
4.2	22.41	22.61		19.7	211.17	210.47		199.7	20.18	20.17		18.11
4.4	22.53	22.69		19.88	212.81	212.51		201.97	20.10	20.05		18.09
4.6	22.64	22.77		20.04	214.58	214.69		203.89	20.01	19.93		18.05
4.8	22.75	22.85		20.17	216.45	216.97		205.61	19.92	19.80		17.99
5	22.86	22.92		20.29	218.44	219.39		207.3	19.83	19.67		17.91
5.2	22.97	22.99		20.38	220.52	221.93		208.96	19.73	19.54		17.81
5.4	23.07	23.05		20.46	222.69	224.63		210.58	19.63	19.47		17.69
5.6	23.17	23.11		20.53	224.95	227.47		212.13	19.53	19.22		17.56
5.8	23.26			20.66	227.29			213.67	19.42			17.48
6	23.35			20.70	229.69			215.32	19.31			17.32
6.2				20.73				216.91				17.15
6.4				20.69				217.86				16.93
6.6				20.91				219.35				17.01
6.8				20.71				221.31				16.59
7												16.41
7.2												16.08

