

Typical Performance Data

TEST CONDITION: T_{BASE} = 25°C, 50Ω SYSTEM, V_{DS}=5 V typ., I_{DC} =650 mA typ.

Frequency (GHz)	S11			S21			S22		
	(dB)			(dB)			(dB)		
	DAC Value "0"	DAC Value "31"	DAC Value "63"	DAC Value "0"	DAC Value "31"	DAC Value "63"	DAC Value "0"	DAC Value "31"	DAC Value "63"
2.40	-11.07	-11.29	-11.42	-0.13	-16.14	-33.04	-13.22	-13.40	-13.40
2.41	-11.90	-12.11	-12.26	-0.05	-16.09	-32.99	-13.53	-13.74	-13.74
2.42	-12.69	-12.93	-13.09	0.02	-16.06	-32.93	-13.89	-14.12	-14.11
2.43	-13.29	-13.59	-13.77	0.08	-16.03	-32.95	-14.29	-14.50	-14.50
2.44	-13.49	-13.90	-14.08	0.12	-16.05	-32.93	-14.72	-14.90	-14.89
2.45	-13.28	-13.79	-13.96	0.12	-16.09	-32.97	-15.17	-15.29	-15.28
2.46	-12.72	-13.33	-13.48	0.11	-16.16	-33.06	-15.58	-15.64	-15.63
2.47	-12.02	-12.68	-12.81	0.08	-16.22	-33.15	-15.97	-15.94	-15.93
2.48	-11.29	-11.98	-12.10	0.04	-16.30	-33.23	-16.31	-16.19	-16.17
2.49	-10.64	-11.33	-11.45	-0.03	-16.39	-33.28	-16.54	-16.36	-16.34
2.50	-10.07	-10.77	-10.87	-0.10	-16.47	-33.36	-16.67	-16.44	-16.42

TEST CONDITION: DAC VALUE= 0, 50Ω SYSTEM, V_{DS}=5 V typ., I_{DC} =650 mA typ.

Frequency (GHz)	S11			S21			S22		
	(dB)			(dB)			(dB)		
	0°C	25°C	85°C	0°C	25°C	85°C	0°C	25°C	85°C
2.40	-9.23	-11.07	-11.29	-0.13	-0.29	-1.20	-13.25	-13.22	-12.86
2.41	-9.92	-11.90	-11.99	-0.05	-0.23	-1.16	-13.52	-13.53	-13.17
2.42	-10.75	-12.69	-12.62	0.02	-0.19	-1.14	-13.86	-13.89	-13.49
2.43	-11.68	-13.29	-13.11	0.08	-0.17	-1.15	-14.23	-14.29	-13.80
2.44	-12.62	-13.49	-13.36	0.12	-0.18	-1.16	-14.67	-14.72	-14.10
2.45	-13.44	-13.28	-13.35	0.12	-0.23	-1.21	-15.14	-15.17	-14.37
2.46	-13.95	-12.72	-13.10	0.11	-0.29	-1.26	-15.61	-15.58	-14.58
2.47	-14.00	-12.02	-12.71	0.08	-0.37	-1.32	-16.07	-15.97	-14.74
2.48	-13.63	-11.29	-12.24	0.04	-0.44	-1.38	-16.49	-16.31	-14.83
2.49	-13.01	-10.64	-11.77	-0.03	-0.54	-1.45	-16.85	-16.54	-14.86
2.50	-12.30	-10.07	-11.30	-0.10	-0.62	-1.51	-17.10	-16.67	-14.83

TEST CONDITION: DAC Value 255 Frequency 2.45 GHz 25°C, 50Ω SYSTEM, V_{DS}=5 V typ., I_{DC} =650 mA typ.

Temperature	Phase Change
°C	Degrees
0	-179.288
25	-179.486
85	-181.789

TEST CONDITION: DAC Value 256 Frequency 2.45 GHz 25°C, 50Ω SYSTEM, V_{DS}=5 V typ., I_{DC} =650 mA typ.

Frequency	Phase Inversion
(GHz)	Degrees
2.40	-175.066
2.41	-175.428
2.42	-175.766
2.43	-176.078
2.44	-176.382
2.45	-176.651
2.46	-176.877
2.47	-177.07
2.48	-177.24
2.49	-177.323
2.50	-177.406