

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: Vd = 5V, Rbias=1.69K ohms, Id=56 mA @ Temperature = 25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output (1)		Noise Figure
								Current Limit 70mA	Current Limit 80mA	
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)		(dB)
50.0	25.79	31.07	11.20	11.94	1.08	0.70	32.90	22.07	22.09	1.30
100.0	25.66	30.48	11.18	17.34	1.07	0.74	32.54	21.72	22.28	1.15
300.0	24.55	29.58	9.72	25.32	1.06	0.81	32.71	21.68	22.31	0.62
500.0	23.00	28.53	8.40	27.70	1.06	0.88	32.74	21.67	22.53	0.59
600.0	22.20	28.00	7.95	28.36	1.06	0.91	33.18	21.60	22.60	0.67
800.0	20.66	26.94	7.31	28.91	1.07	0.96	33.70	21.65	22.70	0.69
1000.0	19.27	25.94	6.93	28.76	1.09	0.99	33.72	21.67	22.74	0.75
1200.0	18.02	24.95	6.61	28.02	1.10	1.01	34.71	21.71	22.82	0.86
1400.0	16.92	24.00	6.44	27.54	1.10	1.02	34.52	21.70	22.81	0.86
1600.0	15.91	23.22	6.26	26.60	1.11	1.04	34.69	21.61	22.72	0.94
1700.0	15.44	22.77	6.18	26.74	1.11	1.04	34.68	21.73	22.84	0.95
1900.0	14.62	22.01	6.18	26.51	1.11	1.04	35.20	21.64	22.74	0.88
2100.0	13.85	21.27	6.09	26.07	1.11	1.05	35.38	21.57	22.70	0.92
2300.0	13.17	20.58	6.10	26.44	1.11	1.05	35.25	21.58	22.71	1.03
2500.0	12.47	20.07	6.37	28.04	1.14	1.04	35.51	21.56	22.68	1.09
2700.0	11.75	19.49	6.00	25.12	1.13	1.07	35.48	21.57	22.69	1.30
2900.0	11.37	18.80	6.21	26.76	1.12	1.04	35.79	21.45	22.57	1.28
3000.0	11.11	18.54	6.32	27.32	1.13	1.04	35.64	21.48	22.61	1.17
3200.0	10.63	18.01	6.39	27.59	1.13	1.03	35.94	21.58	22.69	1.20
3400.0	10.19	17.52	6.62	28.95	1.13	1.02	35.91	21.66	22.77	1.17
3600.0	9.78	17.01	6.82	28.89	1.13	1.01	36.02	21.69	22.81	1.24
3800.0	9.39	16.55	6.94	28.83	1.13	1.00	35.99	21.66	22.78	1.32
4000.0	9.03	16.14	7.21	28.16	1.14	0.99	35.85	21.69	22.82	1.29
4100.0	8.81	15.95	7.25	27.11	1.15	0.99	36.21	21.75	22.89	1.61
4300.0	8.37	15.60	7.39	25.73	1.16	0.98	35.45	21.68	22.85	1.47
4500.0	8.04	15.17	7.60	24.85	1.16	0.97	35.40	21.99	23.09	1.36
4700.0	7.57	14.91	7.88	23.39	1.20	0.96	35.87	21.96	23.14	1.74
4900.0	7.35	14.52	7.34	23.33	1.16	0.97	36.49	22.05	23.17	1.72
5100.0	7.14	14.12	7.16	22.69	1.14	0.97	36.44	22.25	23.36	1.72
5300.0	6.86	13.81	6.97	21.88	1.13	0.97	36.53	22.02	23.20	1.82
5400.0	6.72	13.66	6.89	21.25	1.13	0.97	36.31	22.02	23.17	1.80
5600.0	6.43	13.38	6.74	20.05	1.13	0.97	36.58	21.97	23.07	1.97
5800.0	6.14	13.14	6.56	18.99	1.12	0.97	36.60	21.86	23.03	1.96
6000.0	5.86	12.88	6.30	18.17	1.12	0.98	36.52	21.95	23.06	2.13
6200.0	5.57	12.68	6.03	17.23	1.11	0.98	36.44	21.97	23.12	1.98
6400.0	5.29	12.49	5.82	16.62	1.11	0.99	36.55	21.97	23.12	2.20
6600.0	4.98	12.33	5.63	15.74	1.11	0.99	36.59	22.17	23.37	2.34
6800.0	4.63	12.23	5.46	15.11	1.12	1.00	36.58	22.21	23.44	2.67
7000.0	4.14	12.24	5.82	14.29	1.19	0.99	36.54	22.26	23.09	2.81

(1) Current is externally limited during P1dB measurements. Unit is capable of higher output power if current is not limited.

MMIC Amplifier

PMA-5456+

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: Vd = 5V, Rbias=1.69K ohms, Id=59 mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	Noise Figure
					K	Measure		
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dB)
50.0	26.05	30.43	12.87	11.92	1.01	0.65	31.75	0.96
100.0	25.73	30.19	13.25	17.08	1.06	0.70	32.40	0.99
300.0	24.62	29.52	11.07	23.30	1.08	0.76	33.13	0.61
500.0	23.15	28.70	9.21	24.48	1.09	0.84	33.46	0.46
600.0	22.39	28.15	8.60	24.54	1.10	0.86	33.85	0.50
800.0	20.90	27.04	7.79	24.67	1.10	0.91	34.21	0.51
1000.0	19.54	25.99	7.27	24.17	1.11	0.94	34.14	0.44
1200.0	18.31	24.99	6.90	23.81	1.11	0.96	35.10	0.67
1400.0	17.23	24.00	6.65	23.40	1.11	0.98	34.95	0.65
1600.0	16.23	23.15	6.45	23.01	1.11	0.99	34.99	0.74
1700.0	15.78	22.68	6.35	23.24	1.10	1.00	35.05	0.77
1900.0	14.96	21.88	6.28	22.76	1.10	1.00	35.64	0.64
2100.0	14.20	21.15	6.18	23.08	1.10	1.00	35.64	0.69
2300.0	13.53	20.45	6.19	22.87	1.09	1.00	35.79	0.62
2500.0	12.82	19.90	6.46	24.15	1.12	1.00	35.72	0.77
2700.0	12.00	19.44	6.06	22.91	1.12	1.04	35.89	1.14
2900.0	11.75	18.57	6.25	24.12	1.09	1.00	35.92	0.92
3000.0	11.50	18.31	6.34	24.11	1.09	0.99	35.72	0.81
3200.0	11.02	17.77	6.49	25.35	1.09	0.99	36.09	0.86
3400.0	10.59	17.24	6.66	25.62	1.10	0.98	36.09	0.81
3600.0	10.18	16.77	6.89	27.11	1.10	0.97	36.22	0.90
3800.0	9.80	16.31	6.97	26.83	1.10	0.96	36.28	1.05
4000.0	9.45	15.83	7.30	27.96	1.10	0.94	36.19	0.88
4100.0	9.22	15.65	7.30	26.97	1.10	0.94	36.27	0.93
4300.0	8.80	15.32	7.39	24.77	1.11	0.94	35.86	1.04
4500.0	8.46	14.90	7.58	24.50	1.12	0.93	35.52	0.86
4700.0	8.02	14.62	7.79	22.10	1.14	0.92	36.09	1.19
4900.0	7.66	14.31	7.42	21.68	1.14	0.93	36.27	1.39
5100.0	7.53	13.88	7.13	20.95	1.10	0.92	36.30	1.25
5300.0	7.25	13.56	6.88	20.61	1.09	0.93	36.62	1.09
5400.0	7.09	13.42	6.75	19.33	1.09	0.92	36.51	1.27
5600.0	6.82	13.15	6.69	19.01	1.09	0.92	36.53	0.88
5800.0	6.52	12.89	6.46	17.66	1.09	0.92	36.34	1.46
6000.0	6.26	12.67	6.30	17.48	1.08	0.93	36.52	1.51
6200.0	5.96	12.44	5.95	16.26	1.07	0.94	36.19	1.64
6400.0	5.69	12.24	5.76	15.97	1.07	0.94	36.57	1.86
6600.0	5.38	12.09	5.48	14.79	1.07	0.95	36.78	1.62
6800.0	5.08	11.93	5.29	14.57	1.07	0.96	36.64	1.92
7000.0	4.64	11.92	5.40	13.46	1.11	0.95	36.36	1.82

MMIC Amplifier

PMA-5456+

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: Vd = 5V, Rbias=1.69K ohms, Id=52 mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	Noise Figure
					K	Measure		
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dB)
50.0	25.42	31.13	10.09	11.09	1.10	0.70	32.04	1.59
100.0	25.45	30.40	9.63	15.38	1.06	0.74	31.57	1.38
300.0	24.35	29.39	8.66	20.17	1.03	0.83	31.95	0.75
500.0	22.77	28.28	7.72	22.18	1.02	0.91	32.05	0.74
600.0	21.96	27.68	7.41	23.29	1.02	0.94	32.76	0.83
800.0	20.39	26.71	6.92	24.88	1.04	0.99	33.26	0.82
1000.0	18.99	25.75	6.64	26.60	1.06	1.02	33.24	0.94
1200.0	17.74	24.83	6.39	27.73	1.08	1.04	34.38	1.01
1400.0	16.63	23.95	6.26	28.43	1.09	1.06	34.11	1.10
1600.0	15.62	23.18	6.11	28.47	1.11	1.07	34.42	1.25
1700.0	15.15	22.80	6.03	28.61	1.11	1.08	34.35	1.11
1900.0	14.32	22.02	6.03	28.42	1.11	1.08	34.95	1.10
2100.0	13.55	21.34	5.95	28.26	1.12	1.08	35.04	1.16
2300.0	12.86	20.67	5.98	28.50	1.12	1.08	35.16	1.31
2500.0	12.16	20.20	6.20	30.13	1.16	1.08	35.14	1.32
2700.0	11.44	19.64	5.94	26.12	1.15	1.10	35.26	1.62
2900.0	11.05	18.98	6.13	27.98	1.14	1.08	35.56	1.48
3000.0	10.79	18.73	6.23	28.48	1.15	1.07	35.47	1.43
3200.0	10.30	18.20	6.30	28.58	1.15	1.07	35.73	1.52
3400.0	9.85	17.71	6.55	29.69	1.16	1.06	35.57	1.50
3600.0	9.43	17.24	6.73	28.66	1.17	1.05	35.80	1.65
3800.0	9.05	16.78	6.88	27.88	1.17	1.04	35.67	1.69
4000.0	8.68	16.36	7.11	26.88	1.18	1.03	35.63	1.80
4100.0	8.45	16.19	7.15	25.98	1.18	1.02	35.61	1.92
4300.0	8.02	15.85	7.29	24.98	1.20	1.02	35.33	1.99
4500.0	7.68	15.44	7.48	24.66	1.21	1.01	35.17	1.95
4700.0	7.25	15.15	7.73	23.79	1.24	1.00	35.39	2.29
4900.0	6.99	14.75	7.33	23.92	1.21	1.00	36.13	2.21
5100.0	6.79	14.38	7.08	23.32	1.18	1.01	36.42	1.97
5300.0	6.52	14.04	6.89	22.42	1.17	1.01	36.42	2.23
5400.0	6.38	13.90	6.86	22.12	1.17	1.01	36.30	2.28
5600.0	6.10	13.60	6.72	20.79	1.16	1.00	36.43	2.18
5800.0	5.80	13.35	6.48	19.71	1.15	1.01	36.35	2.52
6000.0	5.52	13.10	6.28	18.62	1.15	1.01	36.66	2.65
6200.0	5.24	12.90	6.03	17.90	1.14	1.02	36.50	2.60
6400.0	4.96	12.70	5.83	17.34	1.14	1.03	36.36	2.82
6600.0	4.65	12.54	5.63	16.45	1.14	1.03	36.38	3.05
6800.0	4.31	12.44	5.48	15.88	1.15	1.04	36.58	3.34
7000.0	3.84	12.42	5.73	14.86	1.22	1.03	36.44	3.33



Typical Performance Data

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

TEST CONDITIONS: Vd = 5V, Id=40 mA @ Temperature = +25degC (1)

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP3 Output (dBm)	1dB Comp. Output (2)		FREQ (MHz)	Noise Figure (dB)
					K	Measure		Current Limit 70mA	Current Limit 80mA		
50.0	24.99	31.31	10.54	10.82	1.13	0.74	29.18	22.07	22.09	50.0	1.39
100.0	25.01	30.06	10.34	15.27	1.07	0.74	29.39	21.72	22.28	100.0	0.85
300.0	24.06	28.92	9.03	20.58	1.03	0.80	29.61	21.68	22.31	400.0	0.65
500.0	22.63	27.99	7.91	23.24	1.02	0.89	30.08	21.67	22.53	600.0	0.71
600.0	21.87	27.54	7.48	24.59	1.02	0.93	30.41	21.60	22.60	800.0	0.74
800.0	20.39	26.55	6.88	27.28	1.03	0.98	30.98	21.65	22.70	1100.0	0.81
1000.0	19.02	25.69	6.49	30.05	1.05	1.02	31.03	21.67	22.74	1300.0	0.85
1200.0	17.80	24.73	6.22	32.01	1.06	1.04	31.98	21.71	22.82	1600.0	0.93
1400.0	16.70	23.92	6.04	33.06	1.08	1.06	31.83	21.70	22.81	1800.0	1.06
1600.0	15.72	23.10	5.93	32.60	1.08	1.07	32.18	21.61	22.72	2000.0	0.90
1700.0	15.27	22.74	5.87	32.62	1.09	1.08	32.74	21.73	22.84	2300.0	1.05
1900.0	14.44	22.03	5.83	31.13	1.10	1.08	32.34	21.64	22.74	2500.0	1.05
2100.0	13.69	21.28	5.83	31.13	1.10	1.08	32.06	21.57	22.70	2700.0	1.53
2300.0	13.03	20.65	5.85	31.37	1.10	1.08	32.47	21.58	22.71	3000.0	1.15
2500.0	12.41	19.96	5.96	31.75	1.10	1.07	32.85	21.56	22.68	3200.0	1.22
2700.0	11.54	19.68	5.80	26.83	1.13	1.11	32.90	21.57	22.69	3400.0	1.20
2900.0	11.30	18.84	6.00	29.47	1.11	1.07	32.94	21.45	22.57	3700.0	1.26
3000.0	11.07	18.55	6.08	29.57	1.11	1.06	33.10	21.48	22.61	3900.0	1.26
3200.0	10.63	17.99	6.21	29.54	1.10	1.05	32.94	21.58	22.69	4100.0	1.37
3400.0	10.21	17.46	6.35	29.31	1.10	1.04	33.48	21.66	22.77	4400.0	1.64
3600.0	9.81	16.96	6.49	28.76	1.10	1.03	33.55	21.69	22.81	4600.0	1.67
3800.0	9.42	16.51	6.63	27.87	1.10	1.02	33.38	21.66	22.78	4900.0	1.92
4000.0	9.04	16.09	6.71	26.55	1.11	1.01	32.64	21.69	22.82	5100.0	1.93
4100.0	8.85	15.89	6.74	25.68	1.11	1.01	32.99	21.75	22.89	5300.0	1.93
4300.0	8.44	15.56	6.69	23.86	1.11	1.01	32.27	21.68	22.85	5600.0	1.73
4500.0	8.11	15.17	6.65	22.82	1.11	1.00	33.15	21.99	23.09	5800.0	2.05
4700.0	7.76	14.84	6.74	21.80	1.12	0.99	32.76	21.96	23.14	6000.0	2.23
4900.0	7.22	14.67	7.02	20.78	1.17	0.99	33.32	22.05	23.17	6400.0	2.38
5100.0	7.12	14.14	6.24	20.44	1.10	1.00	33.50	22.25	23.36	6600.0	2.60
5300.0	6.85	13.84	6.03	19.61	1.09	1.01	33.67	22.02	23.20	6800.0	2.37
5400.0	6.71	13.68	5.93	19.15	1.08	1.01	33.03	22.02	23.17	7000.0	3.20
5600.0	6.42	13.44	5.76	18.32	1.08	1.01	33.46	21.97	23.07		
5800.0	6.12	13.16	5.58	17.54	1.07	1.01	33.94	21.86	23.03		
6000.0	5.82	12.95	5.47	16.88	1.07	1.02	33.76	21.95	23.06		
6200.0	5.55	12.72	5.24	16.31	1.06	1.02	33.25	21.97	23.12		
6400.0	5.28	12.50	5.06	15.75	1.06	1.03	33.34	21.97	23.12		
6600.0	5.00	12.31	4.91	15.26	1.05	1.03	33.82	22.17	23.37		
6800.0	4.71	12.14	4.78	14.79	1.06	1.04	33.16	22.21	23.44		
7000.0	4.36	12.05	4.75	14.20	1.08	1.04	33.00	22.26	23.09		

(1) External Rbias resistor is adjusted to obtain desired current

(2) Current is externally limited during P1dB measurements. Unit is capable of higher output power if current is not limited.



REV. OR
 PMA-5456+
 9/21/2021
 Page 4 of 6

Typical Performance Data

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

TEST CONDITIONS: Vd = 5V, Id=60 mA @ Temperature = +25degC (1)

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP3 Output (dBm)	1dB Comp. Output (2)		FREQ (MHz)	Noise Figure (dB)
					K	Measure		Current Limit 70mA	Current Limit 80mA		
50.0	25.84	30.54	11.10	11.86	1.04	0.66	33.16	22.07	22.09	50.0	1.48
100.0	25.74	30.57	11.40	17.34	1.07	0.73	32.90	21.72	22.28	100.0	0.89
300.0	24.66	29.56	9.71	25.72	1.05	0.80	32.83	21.68	22.31	400.0	0.66
500.0	23.13	28.70	8.30	29.70	1.06	0.88	33.22	21.67	22.53	600.0	0.69
600.0	22.33	28.10	7.80	31.05	1.06	0.91	33.60	21.60	22.60	800.0	0.72
800.0	20.79	27.07	7.12	32.45	1.07	0.96	34.10	21.65	22.70	1100.0	0.83
1000.0	19.39	26.02	6.70	31.66	1.08	0.99	33.86	21.67	22.74	1300.0	0.86
1200.0	18.14	25.03	6.42	30.32	1.09	1.02	34.83	21.71	22.82	1600.0	0.93
1400.0	17.03	24.11	6.23	29.09	1.09	1.03	34.75	21.70	22.81	1800.0	0.99
1600.0	16.04	23.29	6.11	28.10	1.10	1.04	35.09	21.61	22.72	2000.0	0.90
1700.0	15.58	22.84	6.05	27.75	1.10	1.04	35.14	21.73	22.84	2300.0	0.99
1900.0	14.74	22.06	6.01	27.20	1.10	1.05	35.44	21.64	22.74	2500.0	1.08
2100.0	13.99	21.30	6.01	27.13	1.10	1.05	35.14	21.57	22.70	2700.0	1.47
2300.0	13.32	20.59	6.05	27.45	1.10	1.04	35.38	21.58	22.71	3000.0	1.15
2500.0	12.70	19.93	6.16	28.05	1.10	1.04	35.59	21.56	22.68	3200.0	1.25
2700.0	11.82	19.64	5.99	26.09	1.13	1.07	35.85	21.57	22.69	3400.0	1.22
2900.0	11.58	18.73	6.19	27.06	1.10	1.03	35.86	21.45	22.57	3700.0	1.29
3000.0	11.34	18.43	6.27	27.44	1.10	1.02	35.85	21.48	22.61	3900.0	1.36
3200.0	10.90	17.86	6.41	27.88	1.10	1.01	35.93	21.58	22.69	4100.0	1.44
3400.0	10.47	17.33	6.56	28.12	1.10	1.00	36.02	21.66	22.77	4400.0	1.60
3600.0	10.07	16.83	6.70	27.99	1.09	0.99	36.15	21.69	22.81	4600.0	1.67
3800.0	9.67	16.36	6.84	27.64	1.10	0.98	36.15	21.66	22.78	4900.0	1.84
4000.0	9.29	15.94	6.91	26.47	1.10	0.98	35.83	21.69	22.82	5100.0	1.81
4100.0	9.09	15.77	6.94	25.66	1.10	0.98	35.81	21.75	22.89	5300.0	1.84
4300.0	8.69	15.40	6.90	23.82	1.10	0.97	35.68	21.68	22.85	5600.0	2.15
4500.0	8.36	15.02	6.85	22.56	1.10	0.97	35.99	21.99	23.09	5800.0	2.10
4700.0	8.00	14.70	6.93	21.36	1.11	0.96	35.70	21.96	23.14	6000.0	2.17
4900.0	7.46	14.53	7.20	20.16	1.16	0.96	36.15	22.05	23.17	6400.0	2.35
5100.0	7.36	14.01	6.42	19.91	1.09	0.97	36.42	22.25	23.36	6600.0	2.48
5300.0	7.08	13.70	6.18	19.07	1.08	0.97	36.35	22.02	23.20	6800.0	2.67
5400.0	6.94	13.55	6.10	18.64	1.07	0.97	36.18	22.02	23.17	7000.0	2.83
5600.0	6.65	13.29	5.92	17.82	1.07	0.97	36.35	21.97	23.07		
5800.0	6.35	13.03	5.73	17.14	1.06	0.98	36.09	21.86	23.03		
6000.0	6.05	12.82	5.61	16.45	1.06	0.98	36.42	21.95	23.06		
6200.0	5.78	12.59	5.38	15.88	1.06	0.98	36.15	21.97	23.12		
6400.0	5.51	12.38	5.20	15.35	1.05	0.99	35.90	21.97	23.12		
6600.0	5.22	12.18	5.05	14.85	1.05	0.99	36.20	22.17	23.37		
6800.0	4.94	12.02	4.92	14.38	1.05	1.00	35.58	22.21	23.44		
7000.0	4.58	11.94	4.88	13.78	1.07	1.00	35.69	22.26	23.09		

(1) External Rbias resistor is adjusted to obtain desired current

(2) Current is externally limited during P1dB measurements. Unit is capable of higher output power if current is not limited.



REV. OR
 PMA-5456+
 9/21/2021
 Page 5 of 6

Typical Performance Data

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

TEST CONDITIONS: Vd = 5V, Id=74 mA @ Temperature = +25degC (1)

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output (2)		FREQ	Noise Figure
								Current Limit 70mA	Current Limit 80mA		
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)		(MHz)	(dB)
50.0	26.19	31.66	11.46	12.40	1.09	0.73	35.86	22.07	22.09	50.0	1.57
100.0	26.03	30.80	11.88	17.93	1.07	0.73	34.47	21.72	22.28	100.0	0.93
300.0	24.90	29.91	9.97	27.33	1.07	0.80	33.88	21.68	22.31	400.0	0.68
500.0	23.33	28.95	8.45	31.19	1.07	0.88	34.10	21.67	22.53	600.0	0.72
600.0	22.52	28.43	7.91	31.85	1.08	0.91	34.56	21.60	22.60	800.0	0.75
800.0	20.95	27.22	7.22	31.35	1.08	0.95	35.04	21.65	22.70	1100.0	0.82
1000.0	19.54	26.15	6.79	29.89	1.09	0.98	34.87	21.67	22.74	1300.0	0.89
1200.0	18.28	25.15	6.51	28.47	1.09	1.00	35.60	21.71	22.82	1600.0	0.95
1400.0	17.16	24.20	6.32	27.56	1.10	1.02	35.78	21.70	22.81	1800.0	1.13
1600.0	16.16	23.29	6.20	26.73	1.10	1.03	35.84	21.61	22.72	2000.0	0.92
1700.0	15.70	22.87	6.13	26.46	1.10	1.03	35.89	21.73	22.84	2300.0	1.01
1900.0	14.86	22.07	6.09	26.06	1.10	1.03	36.34	21.64	22.74	2500.0	1.11
2100.0	14.11	21.30	6.09	26.03	1.10	1.03	36.21	21.57	22.70	2700.0	1.57
2300.0	13.44	20.60	6.12	26.46	1.10	1.03	36.43	21.58	22.71	3000.0	1.17
2500.0	12.81	19.91	6.24	27.01	1.10	1.02	36.60	21.56	22.68	3200.0	1.30
2700.0	11.93	19.60	6.07	25.77	1.13	1.06	37.05	21.57	22.69	3400.0	1.41
2900.0	11.69	18.73	6.27	26.31	1.10	1.02	36.85	21.45	22.57	3700.0	1.36
3000.0	11.46	18.42	6.36	26.76	1.10	1.01	36.87	21.48	22.61	3900.0	1.41
3200.0	11.01	17.84	6.50	27.29	1.09	1.00	37.14	21.58	22.69	4100.0	1.51
3400.0	10.58	17.29	6.65	27.65	1.09	0.99	37.02	21.66	22.77	4400.0	1.77
3600.0	10.17	16.81	6.79	27.76	1.09	0.98	36.95	21.69	22.81	4600.0	1.69
3800.0	9.78	16.33	6.93	27.47	1.09	0.97	37.14	21.66	22.78	4900.0	2.19
4000.0	9.39	15.91	7.00	26.34	1.09	0.96	36.97	21.69	22.82	5100.0	1.86
4100.0	9.19	15.72	7.03	25.57	1.10	0.96	37.07	21.75	22.89	5300.0	2.07
4300.0	8.79	15.38	6.99	23.82	1.10	0.96	36.97	21.68	22.85	5600.0	2.03
4500.0	8.46	14.99	6.95	22.46	1.10	0.95	36.99	21.99	23.09	5800.0	2.07
4700.0	8.10	14.67	7.02	21.28	1.11	0.95	36.84	21.96	23.14	6000.0	2.28
4900.0	7.56	14.47	7.28	20.04	1.15	0.94	37.17	22.05	23.17	6400.0	2.57
5100.0	7.45	13.98	6.49	19.79	1.09	0.95	37.64	22.25	23.36	6600.0	2.73
5300.0	7.18	13.65	6.26	18.97	1.07	0.95	37.46	22.02	23.20	6800.0	2.69
5400.0	7.03	13.53	6.18	18.52	1.07	0.96	37.63	22.02	23.17	7000.0	2.96
5600.0	6.74	13.24	5.99	17.73	1.07	0.96	37.45	21.97	23.07		
5800.0	6.45	13.00	5.80	17.02	1.06	0.96	36.97	21.86	23.03		
6000.0	6.14	12.78	5.68	16.37	1.06	0.96	37.36	21.95	23.06		
6200.0	5.87	12.55	5.46	15.80	1.05	0.97	37.47	21.97	23.12		
6400.0	5.60	12.32	5.26	15.27	1.05	0.97	36.98	21.97	23.12		
6600.0	5.32	12.14	5.11	14.77	1.05	0.98	37.10	22.17	23.37		
6800.0	5.03	11.98	4.97	14.29	1.05	0.98	36.74	22.21	23.44		
7000.0	4.67	11.90	4.94	13.70	1.07	0.98	39.23	22.26	23.09		

(1) External Rbias resistor is adjusted to obtain desired current

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REV. OR
 PMA-5456+
 9/21/2021
 Page 6 of 6