



PD55003 PD55003S

RF POWER TRANSISTORS The LdmoST Plastic FAMILY

N-CHANNEL ENHANCEMENT-MODE LATERAL MOSFETs

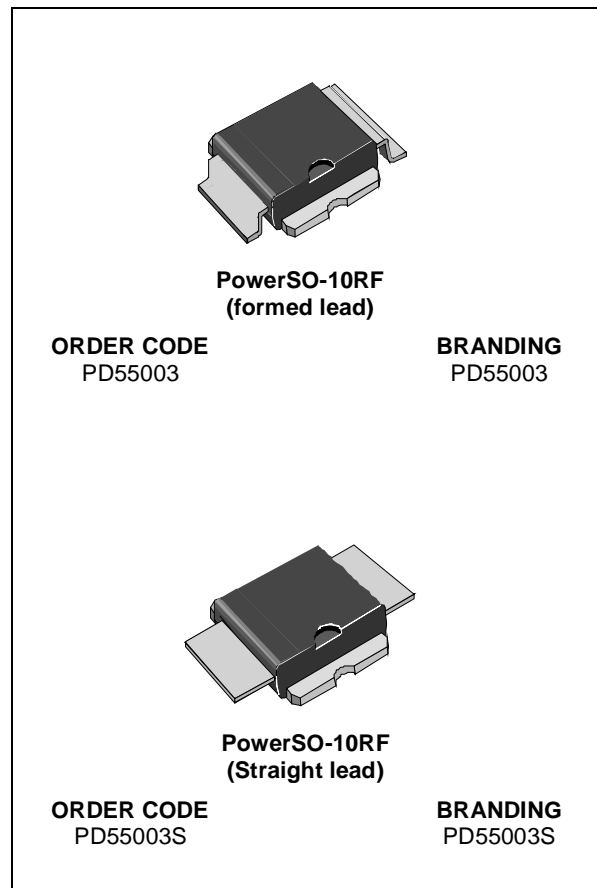
- EXCELLENT THERMAL STABILITY
- COMMON SOURCE CONFIGURATION
- $P_{OUT} = 3\text{ W}$ with 17 dB gain @ 500 MHz / 12.5 V
- NEW RF PLASTIC PACKAGE

DESCRIPTION

The PD55003 is a common source N-Channel, enhancement-mode lateral Field-Effect RF power transistor. It is designed for high gain, broad band commercial and industrial applications. It operates at 12 V in common source mode at frequencies of up to 1 GHz. PD55003 boasts the excellent gain, linearity and reliability of ST's latest LDMOS technology mounted in the first true SMD plastic RF power package, PowerSO-10RF. PD55003's superior linearity performance makes it an ideal solution for car mobile radio.

The PowerSO-10 plastic package, designed to offer high reliability, is the first ST JEDEC approved, high power SMD package. It has been specially optimized for RF needs and offers excellent RF performances and ease of assembly.

Mounting recommendations are available in www.st.com/rf/ (look for application note AN1294)



ABSOLUTE MAXIMUM RATINGS ($T_{CASE} = 25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
$V_{(BR)DSS}$	Drain-Source Voltage	40	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current	2.5	A
P_{DISS}	Power Dissipation (@ $T_c = 70^{\circ}\text{C}$)	31.7	W
T_j	Max. Operating Junction Temperature	165	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}\text{C}$

THERMAL DATA

$R_{th(j-c)}$	Junction -Case Thermal Resistance	3.0	$^{\circ}\text{C}/\text{W}$
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PD55003 - PD55003S

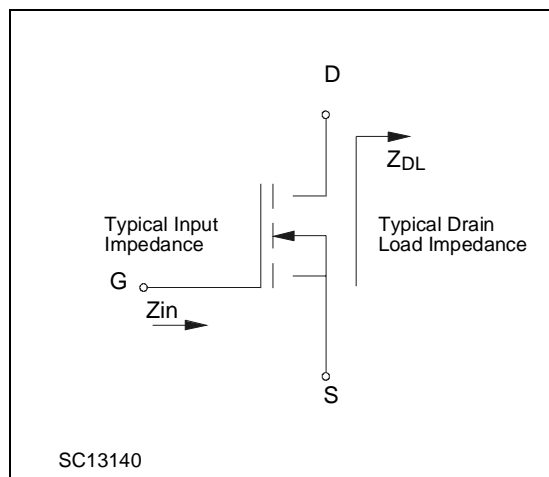
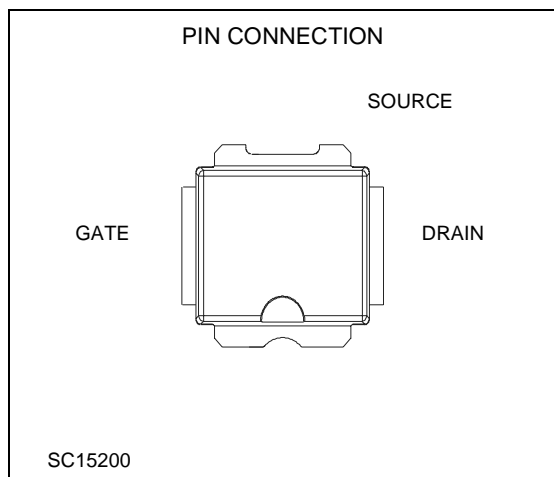
ELECTRICAL SPECIFICATION (T_{CASE} = 25°C)

STATIC

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
I _{DSS}	V _{GS} = 0 V	V _{DS} = 28 V			1	μA
I _{GSS}	V _{GS} = 20 V	V _{DS} = 0 V			1	μA
V _{GS(Q)}	V _{DS} = 10 V	I _D = 50 mA	2.0		5.0	V
V _{DS(ON)}	V _{GS} = 10 V	I _D = 0.5 A			0.36	V
g _{FS}	V _{DS} = 10 V	I _D = 1 A		1.0		mho
C _{ISS}	V _{GS} = 0 V	V _{DS} = 12.5 V		36		pF
C _{OSS}	V _{GS} = 0 V	V _{DS} = 12.5 V		24		pF
C _{RSS}	V _{GS} = 0 V	V _{DS} = 12.5 V		2.4		pF

DYNAMIC

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
P _{1dB}	V _{DD} = 12.5 V	I _{DQ} = 50 mA	f = 500 MHz	3		W
G _P	V _{DD} = 12.5 V	I _{DQ} = 50 mA	P _{OUT} = 3 W	14	17	dB
η _D	V _{DD} = 12.5 V	I _{DQ} = 50 mA	P _{OUT} = 3 W	45	52	%
Load mismatch	V _{DD} = 15.5 V	I _{DQ} = 50 mA	P _{OUT} = 3 W	20:1		VSWR
	ALL PHASE ANGLES					



IMPEDANCE DATA

PD55003

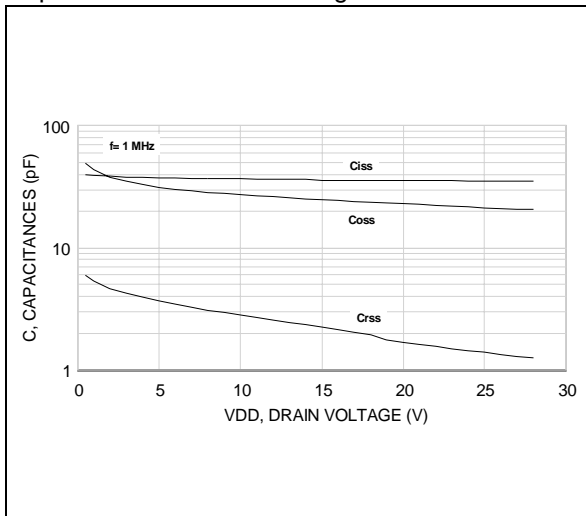
FREQ. MHz	Z _{IN} (Ω)	Z _{DL} (Ω)
520	1.871 - j 1.118	4.779 + j 4.956
500	1.542 - j 3.705	6.842 + j 6.209
480	1.109 - j 1.783	6.789 + j 4.533
860	1.33 + j 1.23	2.93 + j 0.62

PD55003S

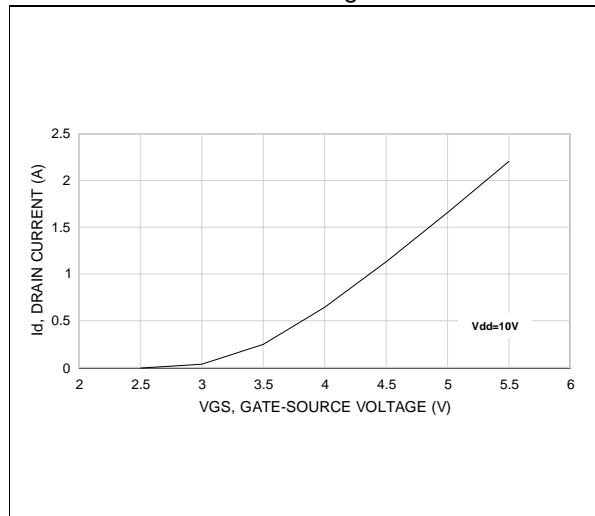
FREQ. MHz	Z _{IN} (Ω)	Z _{DL} (Ω)
520	1.407 - j 3.550	6.557 + j 7.844
500	1.306 - j 5.159	8.351 + j 9.120
480	1.302 - j 6.141-j	8.994 + j 8.983

TYPICAL PERFORMANCE

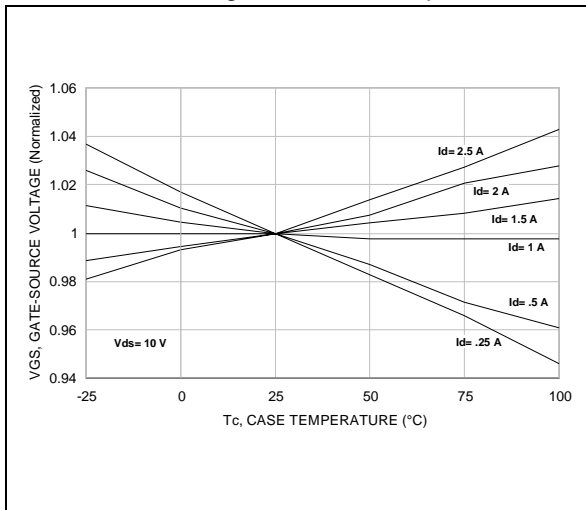
Capacitance vs. Drain Voltage



Drain Current vs. Gate Voltage



Gate-Source Voltage vs. Case Temperature

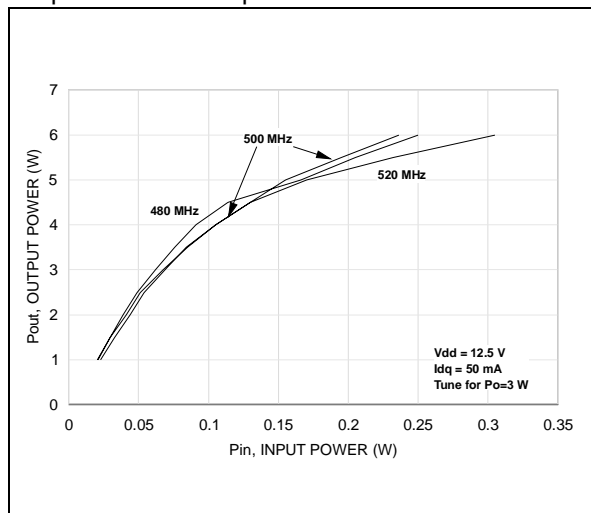


PD55003 - PD55003S

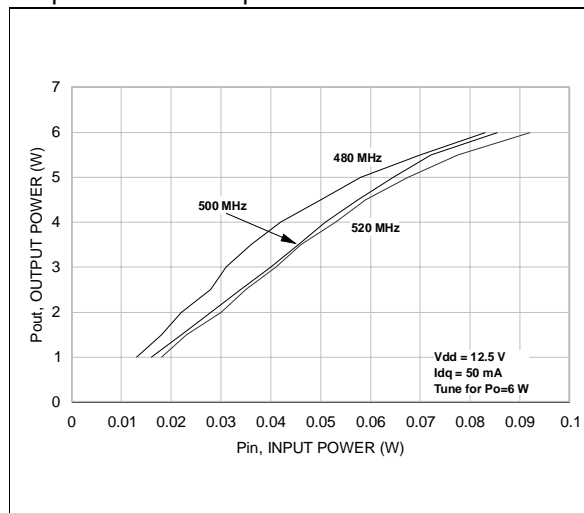
TYPICAL PERFORMANCE

Output Power vs. Input Power

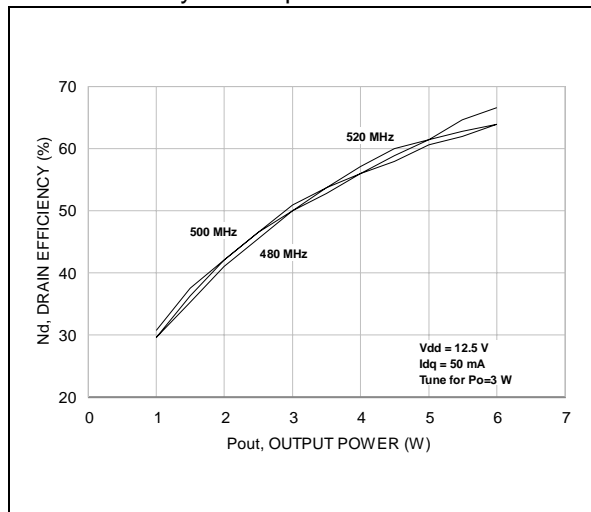
PD55003



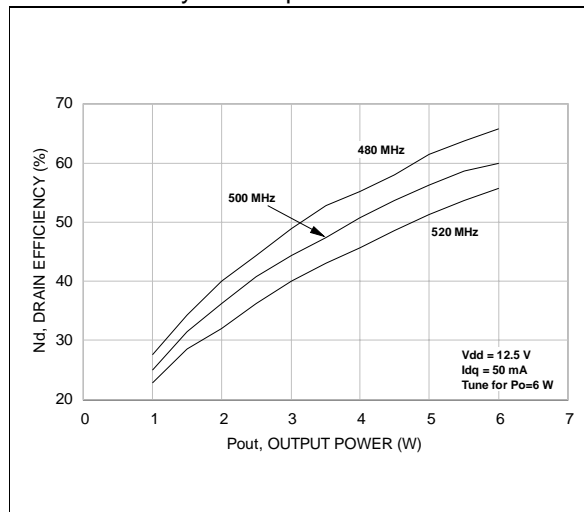
Output Power vs. Input Power



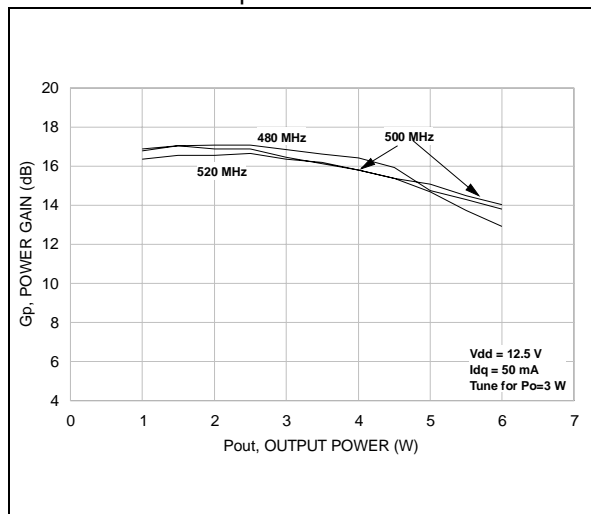
Drain Efficiency vs. Output Power



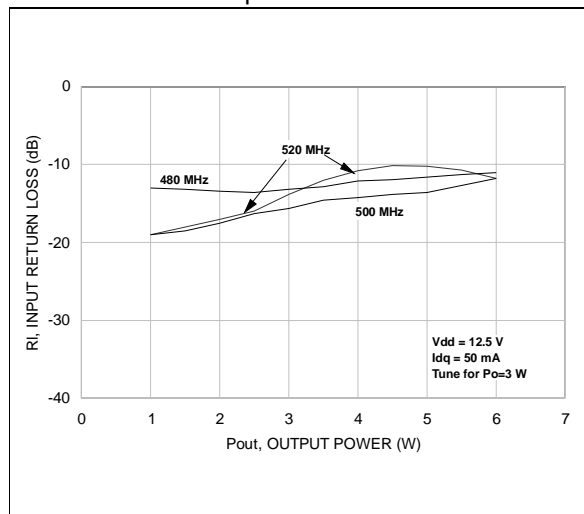
Drain Efficiency vs. Output Power



Power Gain vs. Output Power

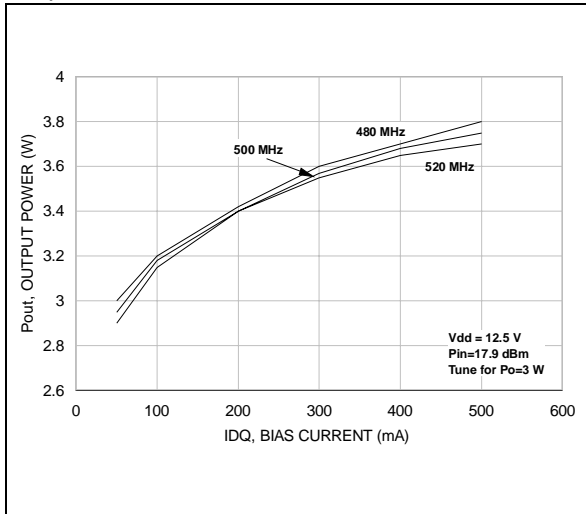


Return Loss vs. Output Power

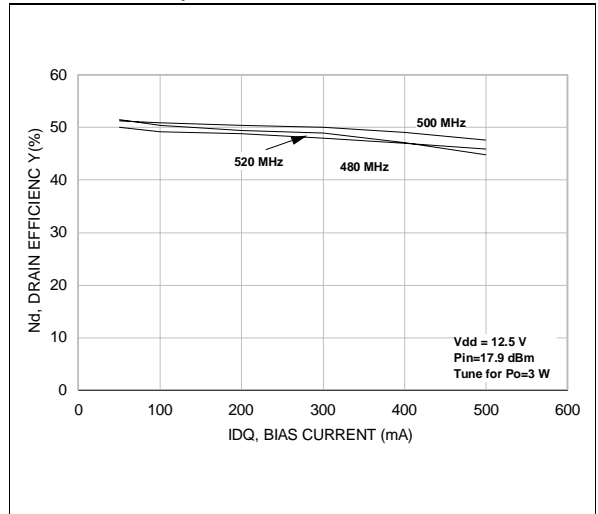


TYPICAL PERFORMANCE

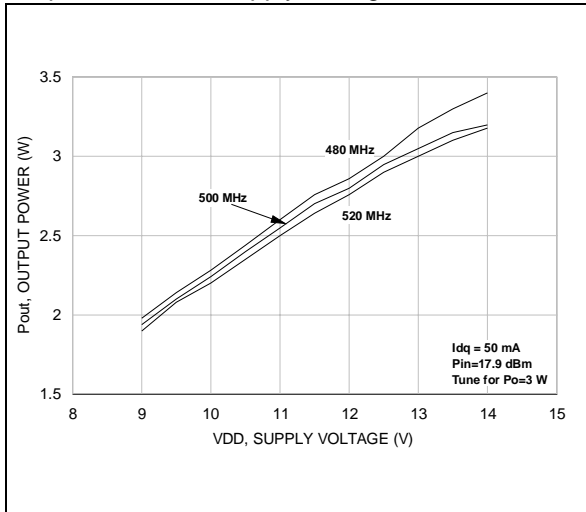
Output Power vs. Bias Current



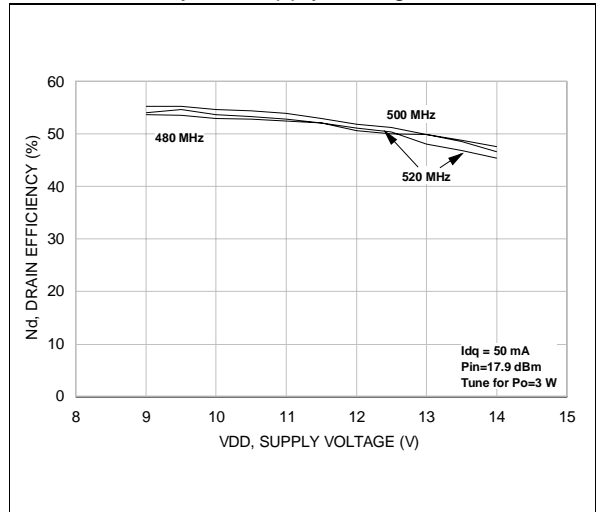
Drain Efficiency vs. Bias Current



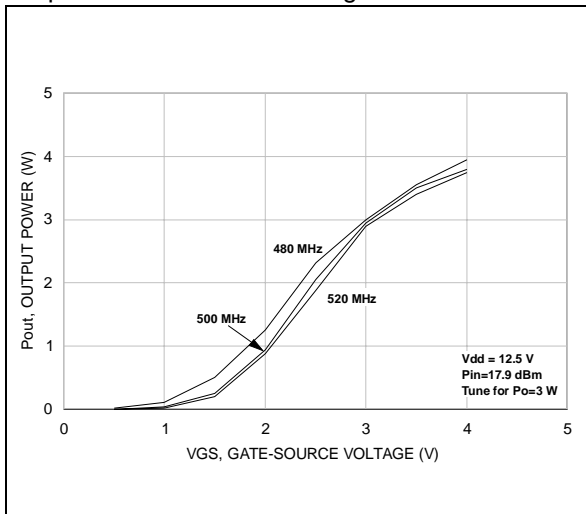
Output Power vs. Supply Voltage



Drain Efficiency vs. Supply Voltage



Output Power vs. Gate Voltage

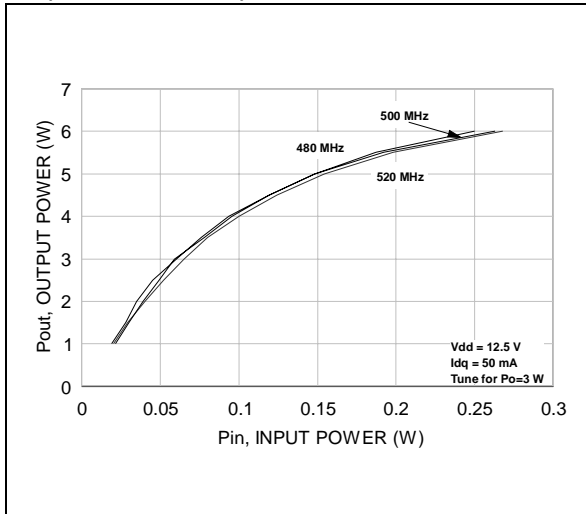


PD55003 - PD55003S

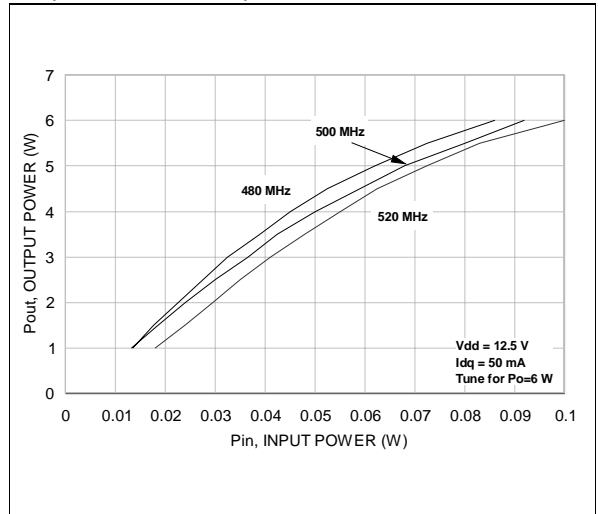
TYPICAL PERFORMANCE

Output Power vs. Input Power

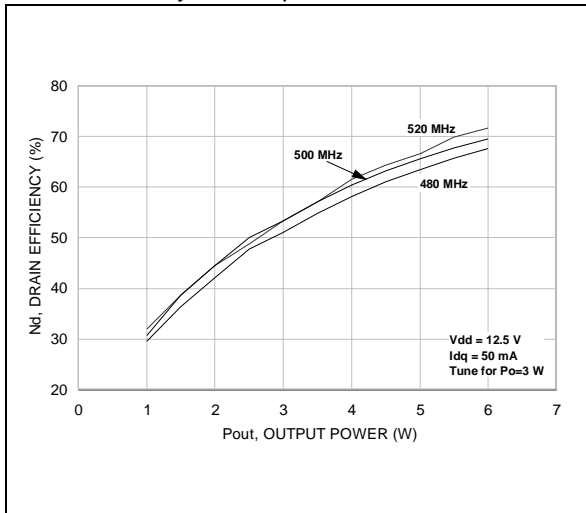
PD55003S



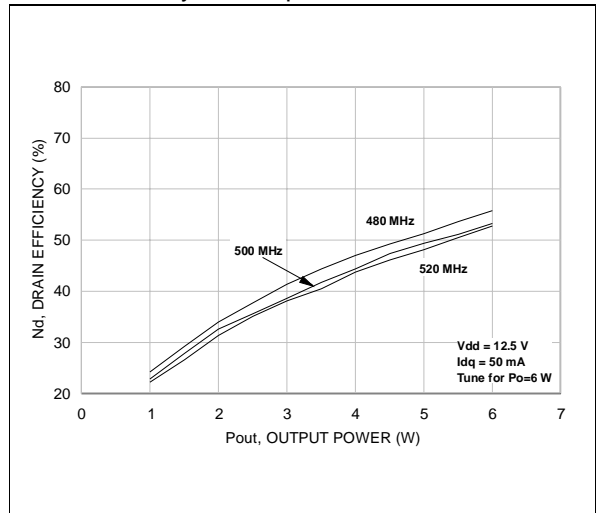
Output Power vs. Input Power



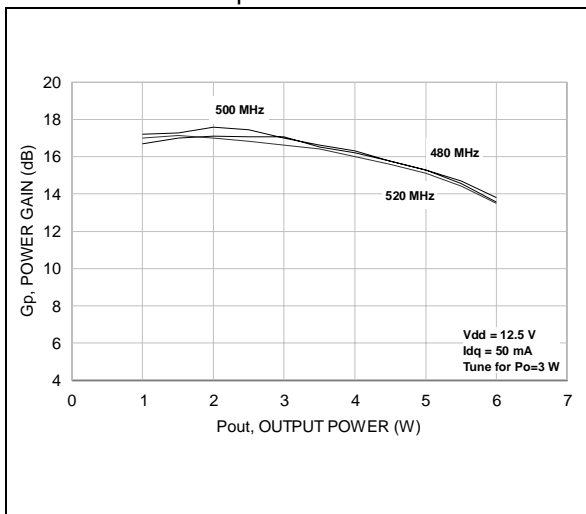
Drain Efficiency vs. Output Power



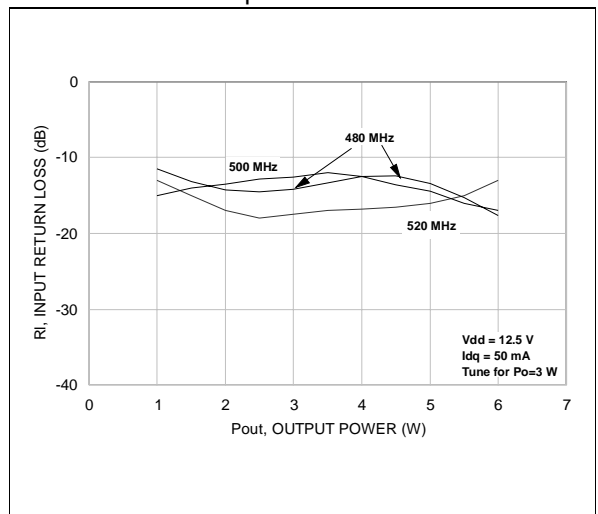
Drain Efficiency vs. Output Power



Power Gain vs. Output Power

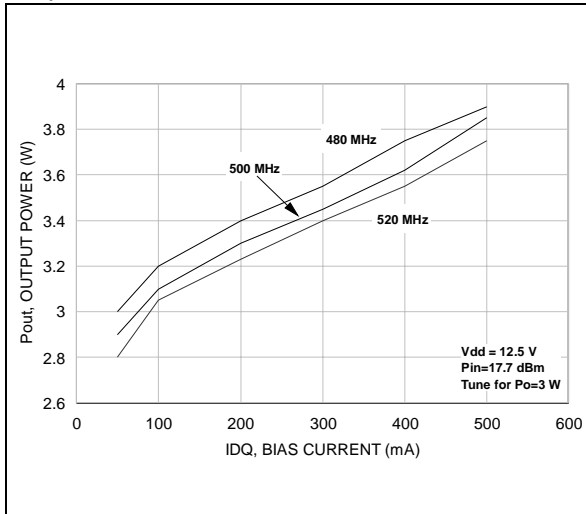


Return Loss vs. Output Power

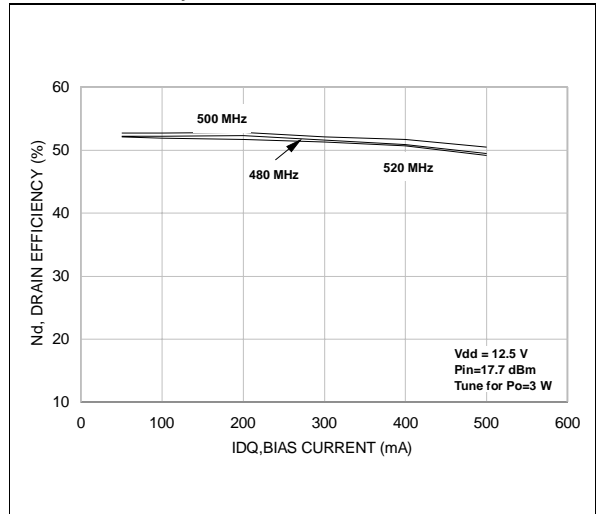


TYPICAL PERFORMANCE

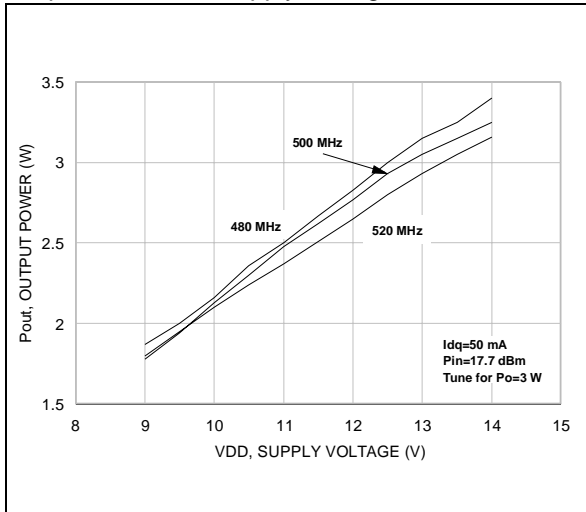
Output Power vs. Bias Current



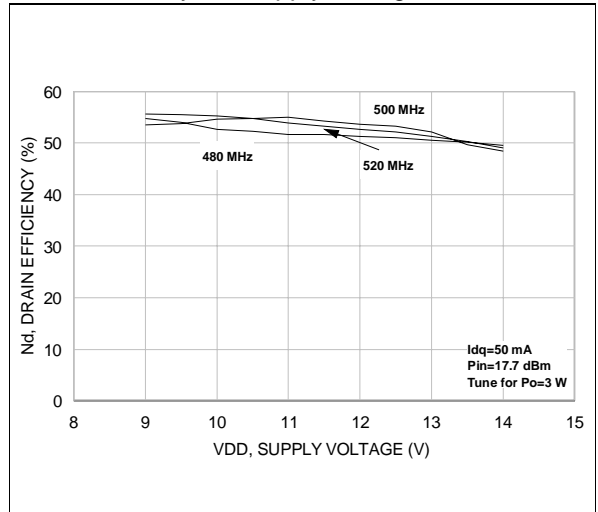
Drain Efficiency vs. Bias Current



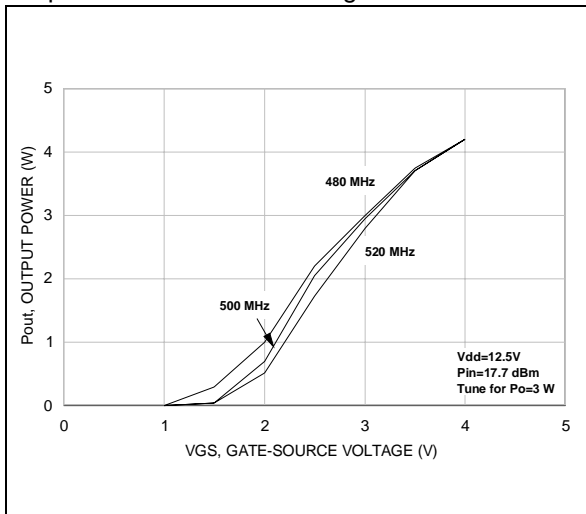
Output Power vs. Supply Voltage



Drain Efficiency vs. Supply Voltage



Output Power vs. Gate Voltage

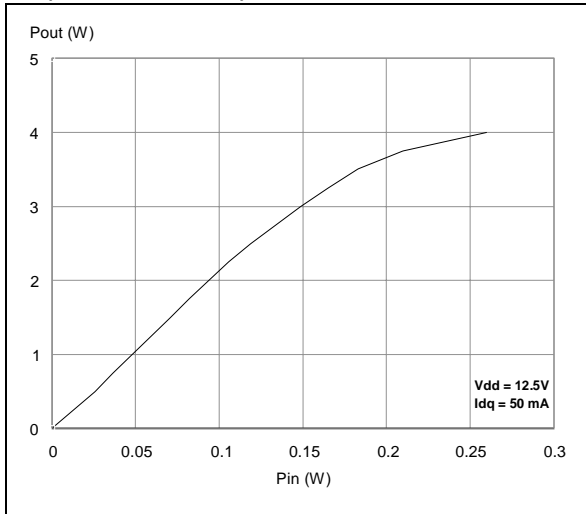


PD55003 - PD55003S

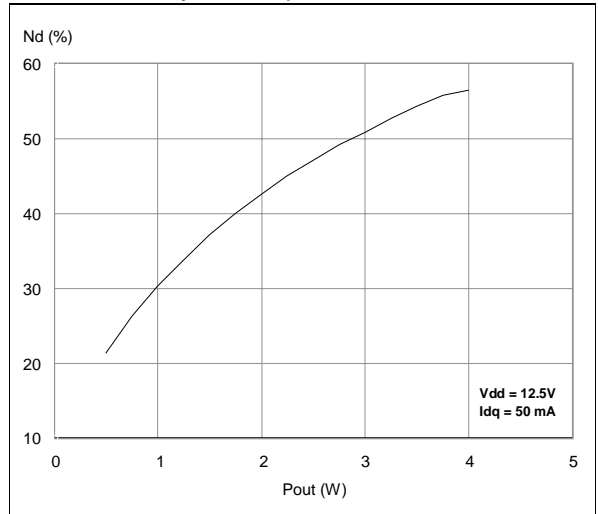
TYPICAL PERFORMANCE (860MHz)

Output Power vs. Input Power

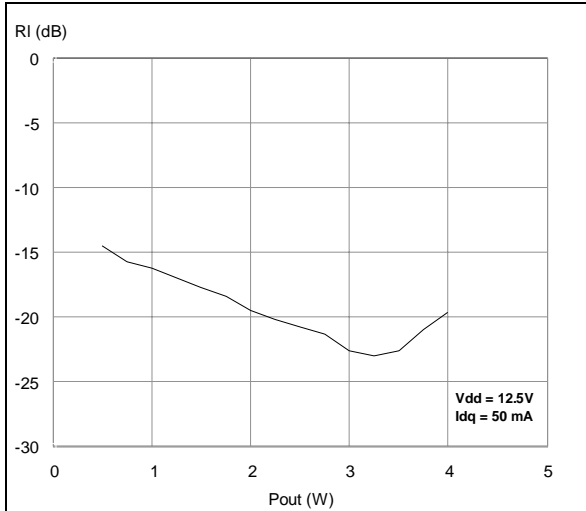
PD55003



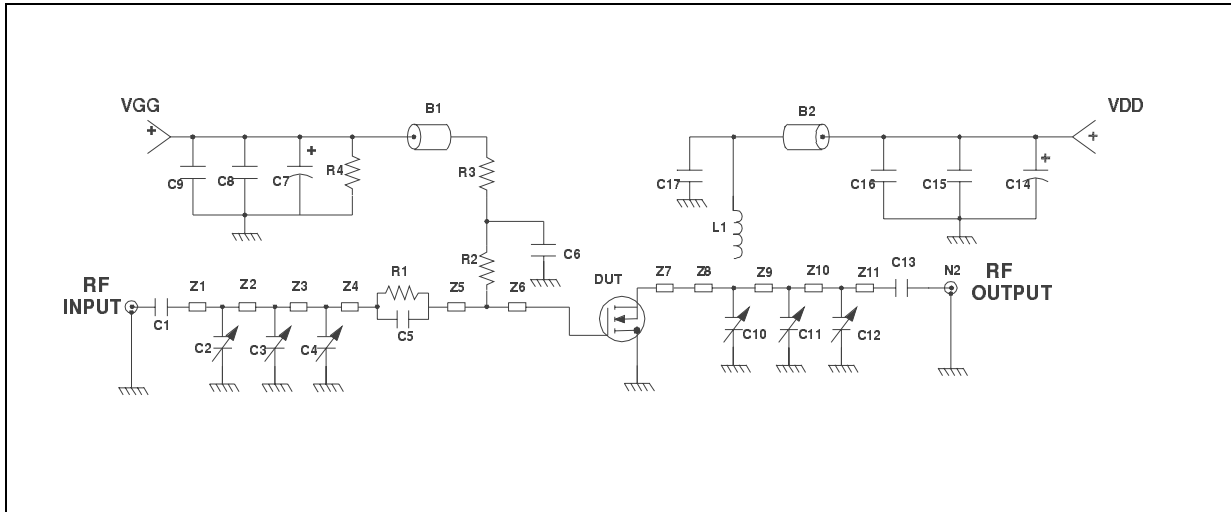
Drain Efficiency vs. Output Power



Input Return Loss vs. Output Power



TEST CIRCUIT SCHEMATIC

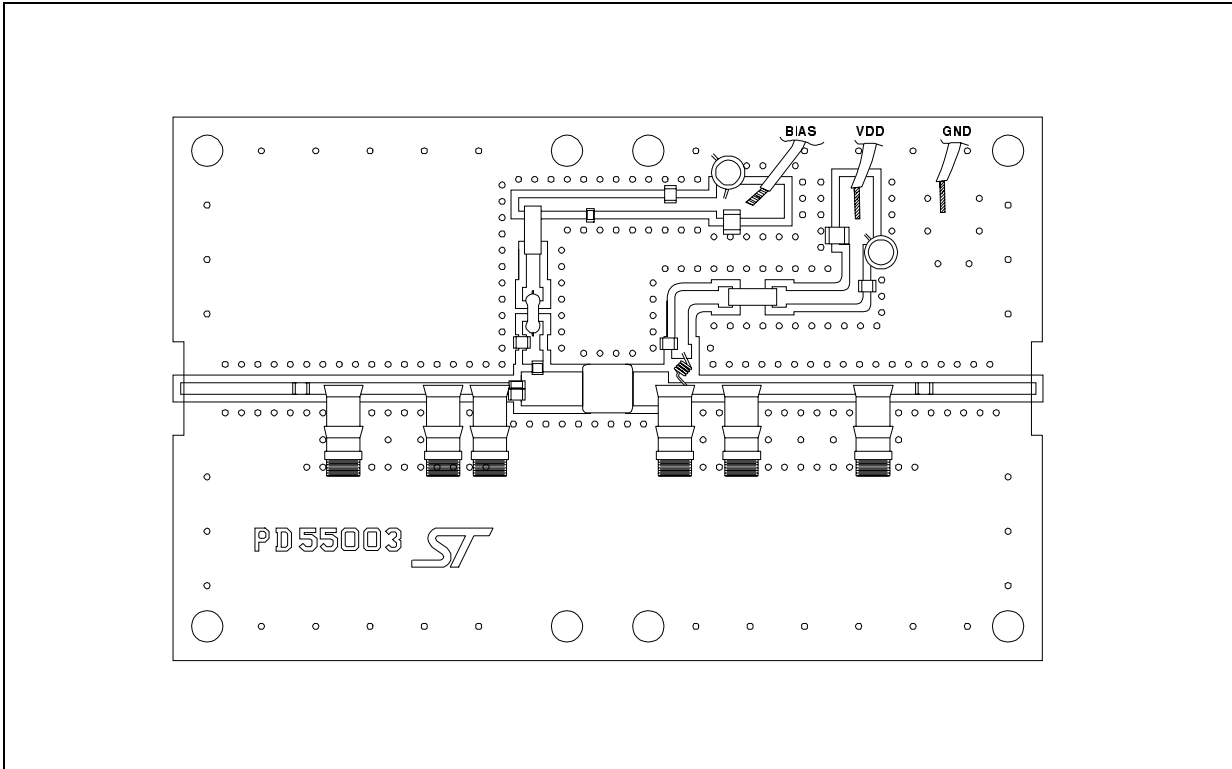


TEST CIRCUIT COMPONENT PART LIST

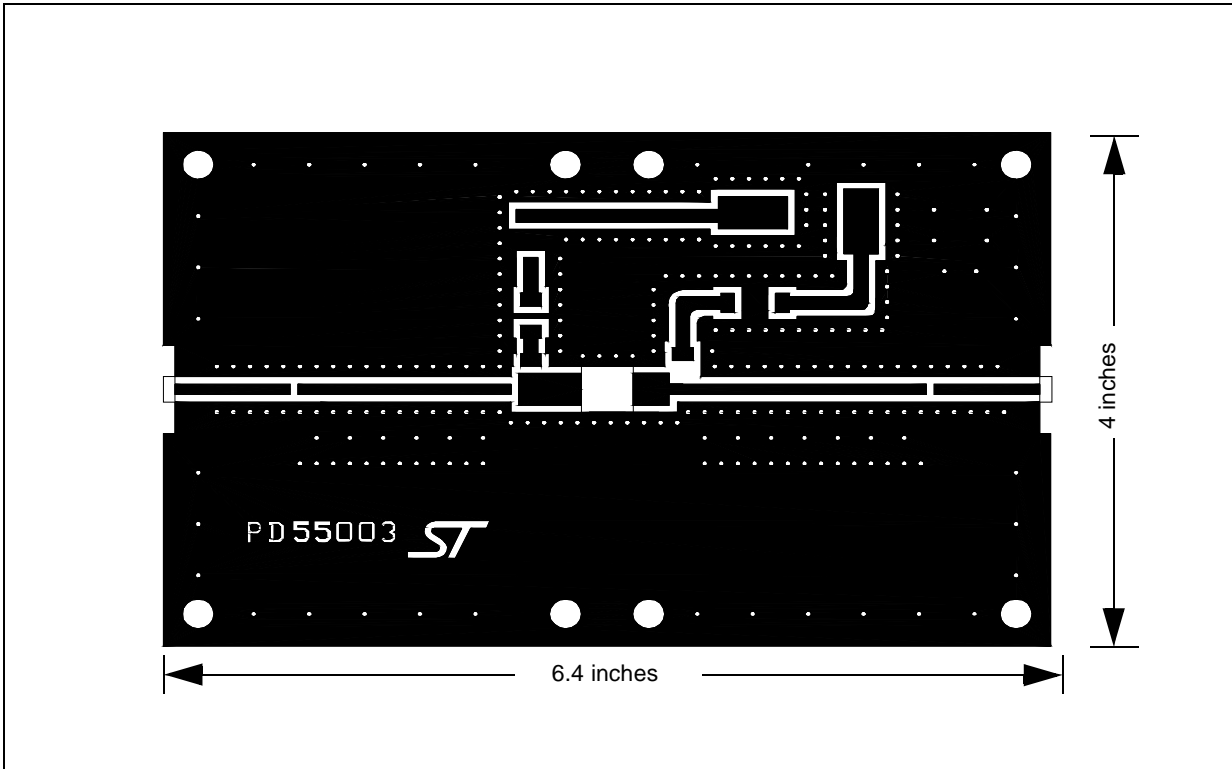
COMPONENT	DESCRIPTION
B1,B2	SHORT FERRIT BEAD, FAIR RITE PRODUCTS (2743021446)
C1,C14	240pf, 100 mil CHIP CAPACITOR
C2,C3,C4,C10,C11, C12	0 TO 20pf TRIMMER CAPACITOR
C5	130pf, 100 mil CHIP CAP
C6,C17	120pf, 100 mil CHIP CAP
C7,C14	10µf, 50V ELECTROLYTIC CAPACITOR
C8,C15	1.200pf, 100 mil CHIP CAP
C9,C16	0.1 F, 100 mil CHIP CAP
L1	55.5 nH, 5 TURN, COILCRAFT
N1,N2	TYPE N FLANGE MOUNT
R1	15 OHM, 0805 CHIP RESISTOR
R2	1.0 K OHM, 1/8 W RESISTOR
R3	15 OHM, 0805 CHIP RESISTOR
R4	33 K OHM, 1/8 W RESISTOR
Z1	0.175" X 0.080" MICROSTRIP
Z2	1.049" X 0.080" MICROSTRIP
Z3	0.289" X 0.080" MICROSTRIP
Z4	0.026" X 0.080" MICROSTRIP
Z5	0.192" X 0.223" MICROSTRIP
Z6,Z7	0.260" X 0.223" MICROSTRIP
Z8	0.064" X 0.080" MICROSTRIP
Z9	0.334" X 0.080" MICROSTRIP
Z10	0.985" X 0.080" MICROSTRIP
Z11	0.472" X 0.080" MICROSTRIP
BOARD	ROGER ULTRA LAM 2000 THK 0.030" $\epsilon_r = 2.55$ 2oz ED Cu BOTH SIDES

PD55003 - PD55003S

TEST CIRCUIT



TEST CIRCUIT PHOTOMASTER



COMMON SOURCE S-PARAMETER (PD55003)

($V_{DS} = 12.5V$ $I_{DS} = 0.15A$)

FREQ (MHz)	$ S_{11} $	$\angle S_{11}$	$ S_{21} $	$\angle S_{21}$	$ S_{12} $	$\angle S_{12}$	$ S_{22} $	$\angle S_{22}$
50	0.780	-120	21.77	106	0.038	19	0.669	-111
100	0.764	-144	11.34	88	0.040	-1	0.643	-137
150	0.786	-154	7.47	77	0.040	-10	0.634	-145
200	0.804	-159	5.45	69	0.037	-19	0.660	-149
250	0.817	-163	4.22	61	0.036	-26	0.680	-152
300	0.835	-165	3.36	55	0.034	-31	0.720	-156
350	0.852	-167	2.75	48	0.031	-36	0.766	-158
400	0.865	-169	2.28	43	0.028	-41	0.786	-160
450	0.877	-171	1.92	38	0.027	-45	0.816	-161
500	0.889	-172	1.65	34	0.025	-49	0.827	-163
550	0.899	-174	1.42	30	0.022	-52	0.847	-165
600	0.909	-175	1.24	27	0.021	-51	0.856	-167
650	0.918	-177	1.09	23	0.018	-56	0.874	-169
700	0.924	-178	0.97	20	0.018	-54	0.881	-170
750	0.926	-179	0.87	17	0.016	-61	0.895	-172
800	0.929	180	0.78	15	0.014	-62	0.906	-173
850	0.935	179	0.71	12	0.011	-56	0.916	-174
900	0.938	178	0.65	10	0.011	-63	0.913	-175
950	0.940	177	0.59	8	0.010	-62	0.925	-177
1000	0.941	176	0.55	5	0.007	-69	0.928	-178
1050	0.944	175	0.51	3	0.007	-57	0.925	-180
1100	0.947	174	0.47	1	0.006	-56	0.929	-180
1150	0.946	173	0.44	-1	0.005	-53	0.928	179
1200	0.944	172	0.41	-3	0.004	-40	0.927	178
1250	0.949	171	0.38	-5	0.004	-54	0.928	176
1300	0.949	170	0.36	-7	0.003	-63	0.940	176
1350	0.947	169	0.34	-9	0.001	-15	0.935	175
1400	0.949	168	0.31	-10	0.001	82	0.938	175
1450	0.946	167	0.29	-12	0.002	76	0.933	174
1500	0.948	167	0.27	-12	0.002	124	0.939	173

COMMON SOURCE S-PARAMETER (PD55003)

($V_{DS} = 12.5V$ $I_{DS} = 0.8A$)

FREQ (MHz)	$ S_{11} $	$\angle S_{11}$	$ S_{21} $	$\angle S_{21}$	$ S_{12} $	$\angle S_{12}$	$ S_{22} $	$\angle S_{22}$
50	0.786	-138	26.54	100	0.026	13	0.666	-137
100	0.791	-156	13.46	87	0.026	0	0.674	-155
150	0.816	-163	8.94	80	0.027	-5	0.662	-160
200	0.829	-167	6.63	73	0.026	-13	0.678	-163
250	0.835	-170	5.24	67	0.025	-16	0.677	-164
300	0.846	-171	4.26	62	0.025	-21	0.709	-167
350	0.854	-173	3.57	56	0.023	-25	0.736	-167
400	0.864	-174	3.01	51	0.021	-31	0.758	-168
450	0.872	-175	2.58	47	0.021	-31	0.783	-167
500	0.878	-176	2.24	43	0.019	-34	0.787	-168
550	0.890	-177	1.97	39	0.018	-37	0.800	-170
600	0.896	-178	1.74	36	0.017	-39	0.816	-171
650	0.902	-179	1.56	32	0.014	-44	0.827	-173
700	0.910	180	1.41	29	0.015	-38	0.845	-173
750	0.909	179	1.27	26	0.012	-46	0.854	-175
800	0.917	178	1.16	23	0.011	-41	0.865	-175
850	0.918	177	1.06	21	0.008	-37	0.879	-176
900	0.925	176	0.97	18	0.010	-43	0.877	-177
950	0.926	175	0.90	15	0.008	-47	0.887	-179
1000	0.927	174	0.83	12	0.007	-44	0.889	180
1050	0.921	173	0.77	10	0.007	-47	0.898	179
1100	0.932	172	0.72	8	0.006	-11	0.902	179
1150	0.933	172	0.67	6	0.005	-35	0.895	178
1200	0.930	171	0.63	4	0.004	-16	0.901	177
1250	0.937	170	0.59	1	0.004	-14	0.897	176
1300	0.937	169	0.55	-1	0.004	4	0.916	176
1350	0.936	168	0.52	-3	0.003	1	0.909	175
1400	0.937	168	0.49	-4	0.004	39	0.917	174
1450	0.934	167	0.45	-6	0.004	60	0.910	173
1500	0.938	166	0.43	-7	0.002	73	0.916	172

COMMON SOURCE S-PARAMETER (PD55003)(V_{DS} = 12.5V I_{DS} = 1.5A)

FREQ (MHz)	S ₁₁	∠S ₁₁	S ₂₁	∠S ₂₁	S ₁₂	∠S ₁₂	S ₂₂	∠S ₂₂
50	0.789	-140	26.35	100	0.025	15	0.666	-141
100	0.800	-157	13.35	87	0.025	-1	0.675	-157
150	0.825	-164	8.88	80	0.024	-6	0.667	-162
200	0.836	-168	6.59	74	0.023	-13	0.678	-164
250	0.842	-171	5.22	68	0.024	-16	0.678	-165
300	0.851	-172	4.26	62	0.022	-18	0.713	-168
350	0.856	-174	3.56	57	0.021	-25	0.738	-168
400	0.864	-175	3.02	52	0.021	-28	0.754	-168
450	0.874	-176	2.60	48	0.019	-32	0.770	-168
500	0.882	-177	2.25	44	0.017	-32	0.782	-169
550	0.888	-178	1.98	40	0.016	-33	0.796	-171
600	0.898	-179	1.76	36	0.016	-37	0.806	-172
650	0.901	-180	1.58	33	0.013	-34	0.825	-173
700	0.909	179	1.42	30	0.013	-42	0.843	-174
750	0.910	178	1.29	27	0.011	-36	0.852	-175
800	0.915	177	1.18	24	0.012	-36	0.861	-176
850	0.915	177	1.08	21	0.010	-26	0.863	-176
900	0.922	176	0.99	19	0.009	-28	0.873	-178
950	0.926	175	0.92	16	0.008	-39	0.880	-179
1000	0.925	174	0.85	13	0.007	-39	0.882	180
1050	0.927	173	0.79	11	0.006	-27	0.892	179
1100	0.928	172	0.74	9	0.005	-35	0.891	178
1150	0.932	171	0.68	6	0.006	-11	0.899	178
1200	0.929	170	0.64	4	0.005	-20	0.896	177
1250	0.933	170	0.60	1	0.004	8	0.889	176
1300	0.935	169	0.57	0	0.005	15	0.907	175
1350	0.933	168	0.53	-3	0.004	25	0.904	174
1400	0.936	167	0.50	-4	0.003	53	0.911	174
1450	0.934	166	0.49	-6	0.004	53	0.909	173
1500	0.936	165	0.44	-7	0.004	64	0.914	172

COMMON SOURCE S-PARAMETER (PD55003S)

($V_{DS} = 12.5V$ $I_{DS} = 0.15A$)

FREQ (MHz)	$ S_{11} $	$S_{11}\angle\Phi$	$ S_{21} $	$S_{21}\angle\Phi$	$ S_{12} $	$S_{12}\angle\Phi$	$ S_{22} $	$S_{22}\angle\Phi$
50	0.790	-120	22	107	0.038	17	0.682	-114
100	0.773	-145	11	89	0.039	-2	0.647	-138
150	0.791	-154	7	78	0.039	-9	0.640	-147
200	0.807	-159	5	70	0.037	-19	0.671	-151
250	0.820	-162	4	63	0.036	-23	0.691	-154
300	0.836	-164	3	56	0.033	-29	0.728	-156
350	0.850	-166	3	50	0.032	-33	0.751	-158
400	0.867	-167	2	45	0.030	-36	0.782	-160
450	0.880	-169	2	40	0.027	-43	0.808	-161
500	0.890	-170	2	36	0.024	-43	0.835	-163
550	0.902	-171	1	33	0.023	-50	0.845	-165
600	0.911	-172	1	29	0.022	-51	0.864	-166
650	0.919	-173	1	26	0.020	-55	0.872	-167
700	0.923	-174	1	23	0.018	-52	0.884	-169
750	0.924	-176	1	20	0.016	-55	0.887	-170
800	0.933	-177	1	18	0.015	-55	0.895	-172
850	0.936	-177	1	15	0.015	-56	0.912	-173
900	0.940	-178	1	13	0.012	-59	0.916	-174
950	0.943	-179	1	11	0.011	-53	0.926	-176
1000	0.944	-180	1	8	0.008	-60	0.943	-177
1050	0.949	180	1	7	0.007	-64	0.935	-177
1100	0.948	179	0	4	0.007	-44	0.944	-178
1150	0.950	178	0	3	0.006	-44	0.939	-179
1200	0.950	177	0	-1	0.005	-50	0.942	-180
1250	0.955	177	0	-2	0.004	-42	0.941	179
1300	0.951	176	0	-4	0.004	-41	0.933	178
1350	0.953	175	0	-5	0.004	-50	0.933	177
1400	0.953	175	0	-7	0.002	-41	0.947	176
1450	0.952	173	0	-9	0.002	-13	0.952	175
1500	0.949	173	0	-10	0.000	-3	0.958	174

COMMON SOURCE S-PARAMETER (PD55003S)(V_{DS} = 12.5V I_{DS} = 0.8A)

FREQ (MHz)	S ₁₁	∠S ₁₁	S ₂₁	∠S ₂₁	S ₁₂	∠S ₁₂	S ₂₂	∠S ₂₂
50	0.807	-137	26.18	102	0.025	12	0.682	-140
100	0.809	-156	13.41	88	0.026	0	0.683	-157
150	0.827	-163	8.92	81	0.025	-6	0.677	-162
200	0.838	-167	6.64	75	0.024	-12	0.698	-165
250	0.842	-169	5.24	69	0.026	-13	0.704	-166
300	0.849	-171	4.28	64	0.022	-19	0.720	-167
350	0.856	-172	3.57	59	0.023	-21	0.736	-167
400	0.866	-173	3.03	54	0.021	-28	0.758	-168
450	0.873	-174	2.61	50	0.020	-30	0.773	-168
500	0.881	-174	2.26	46	0.056	-27	0.797	-169
550	0.891	-175	1.99	42	0.018	-36	0.806	-170
600	0.896	-176	1.76	39	0.017	-35	0.825	-171
650	0.902	-176	1.58	36	0.016	-38	0.831	-171
700	0.908	-177	1.42	33	0.015	-39	0.834	-172
750	0.910	-178	1.29	30	0.014	-40	0.845	-174
800	0.916	-179	1.18	27	0.012	-43	0.859	-174
850	0.922	-180	1.08	25	0.011	-40	0.864	-175
900	0.926	180	1.00	22	0.009	-44	0.878	-176
950	0.927	179	0.93	19	0.010	-43	0.892	-178
1000	0.929	178	0.85	17	0.007	-34	0.905	-178
1050	0.937	178	0.80	15	0.007	-30	0.901	-179
1100	0.934	177	0.75	12	0.006	-29	0.910	-179
1150	0.934	177	0.70	10	0.006	-29	0.914	-180
1200	0.937	176	0.65	7	0.005	-23	0.912	180
1250	0.941	175	0.62	5	0.005	-25	0.912	179
1300	0.938	175	0.57	3	0.005	-3	0.909	177
1350	0.941	174	0.54	1	0.004	3	0.906	176
1400	0.941	174	0.51	-1	0.004	18	0.918	176
1450	0.939	173	0.48	-2	0.003	21	0.925	174
1500	0.939	172	0.45	-3	0.002	42	0.931	173

PD55003 - PD55003S

COMMON SOURCE S-PARAMETER (PD55003S)

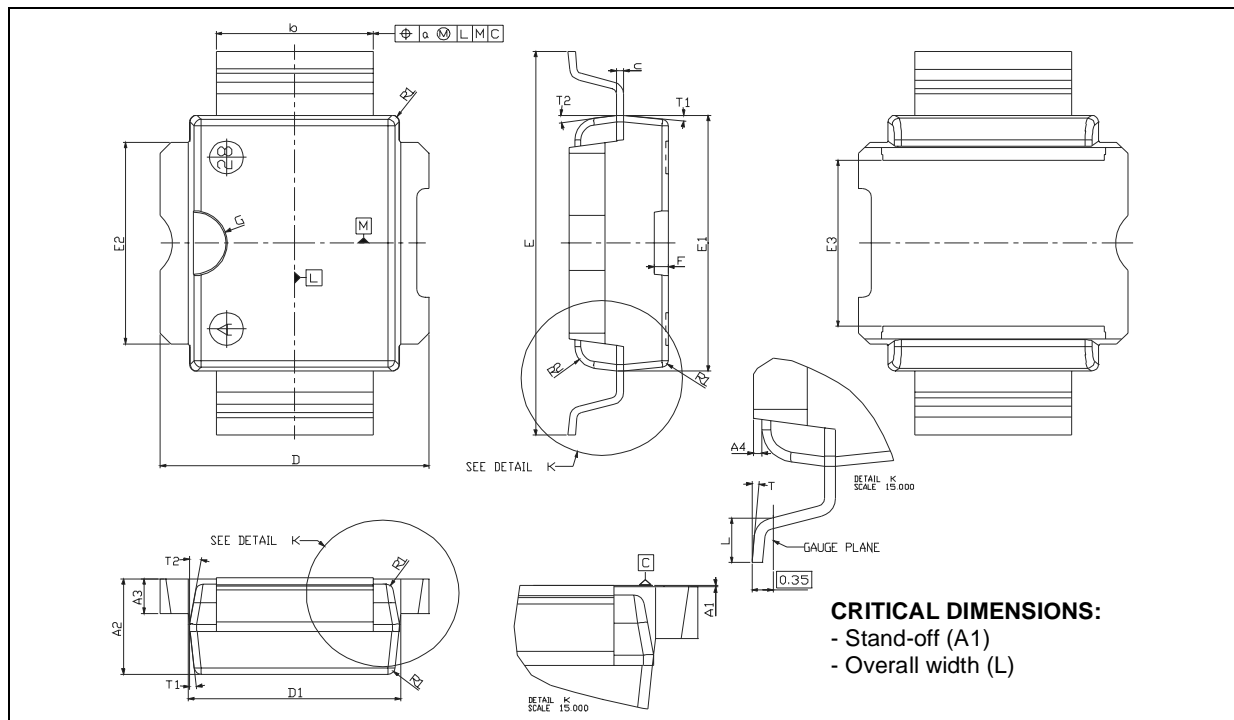
($V_{DS} = 12.5V$ $I_{DS} = 1.5A$)

FREQ (MHz)	$ S_{11} $	$\angle S_{11}$	$ S_{21} $	$\angle S_{21}$	$ S_{12} $	$\angle S_{12}$	$ S_{22} $	$\angle S_{22}$
50	0.816	-140	26.05	101	0.024	11	0.684	-144
100	0.817	-157	13.34	88	0.025	-2	0.690	-159
150	0.839	-164	8.89	82	0.024	-3	0.685	-164
200	0.847	-168	6.62	76	0.024	-10	0.701	-166
250	0.850	-170	5.25	70	0.023	-14	0.707	-168
300	0.655	-171	4.29	65	0.023	-17	0.726	-168
350	0.861	-173	3.59	60	0.021	-21	0.735	-169
400	0.869	-174	3.06	55	0.020	-24	0.761	-169
450	0.877	-174	2.64	51	0.019	-27	0.769	-170
500	0.884	-175	2.30	47	0.017	-31	0.795	-170
550	0.893	-176	2.02	44	0.017	-26	0.800	-171
600	0.898	-177	1.80	40	0.015	-36	0.819	-172
650	0.905	-177	1.62	38	0.015	-36	0.829	-172
700	0.908	-178	1.46	34	0.014	-34	0.831	-173
750	0.909	-179	1.33	31	0.012	-35	0.842	-174
800	0.914	-179	1.21	29	0.012	-36	0.852	-175
850	0.918	-180	1.11	26	0.011	-31	0.856	-176
900	0.923	179	1.03	23	0.009	-32	0.872	-177
950	0.927	179	0.96	21	0.009	-34	0.879	-178
1000	0.926	178	0.88	18	0.008	-21	0.894	-178
1050	0.935	178	0.83	16	0.007	-20	0.898	-179
1100	0.933	177	0.78	13	0.007	-22	0.900	-179
1150	0.933	176	0.73	10	0.006	-15	0.904	180
1200	0.934	175	0.68	8	0.005	-18	0.903	179
1250	0.940	175	0.64	6	0.004	-16	0.901	178
1300	0.935	174	0.59	4	0.004	4	0.902	177
1350	0.938	174	0.56	2	0.005	5	0.898	176
1400	0.938	173	0.53	0	0.005	25	0.915	175
1450	0.939	173	0.50	-2	0.004	14	0.925	174
1500	0.935	172	0.47	-3	0.002	48	0.928	173

PowerSO-10RF Formed Lead (Gull Wing) MECHANICAL DATA

DIM.	mm			Inch		
	MIN.	TYP.	MAX	MIN.	TYP.	MAX
A1	0	0.05	0.1	0.	0.0019	0.0038
A2	3.4	3.5	3.6	0.134	0.137	0.142
A3	1.2	1.3	1.4	0.046	0.05	0.054
A4	0.15	0.2	0.25	0.005	0.007	0.009
a		0.2			0.007	
b	5.4	5.53	5.65	0.212	0.217	0.221
c	0.23	0.27	0.32	0.008	0.01	0.012
D	9.4	9.5	9.6	0.370	0.374	0.377
D1	7.4	7.5	7.6	0.290	0.295	0.298
E	13.85	14.1	14.35	0.544	0.555	0.565
E1	9.3	9.4	9.5	0.365	0.37	0.375
E2	7.3	7.4	7.5	0.286	0.292	0.294
E3	5.9	6.1	6.3	0.231	0.24	0.247
F		0.5			0.019	
G		1.2			0.047	
L	0.8	1	1.1	0.030	0.039	0.042
R1			0.25			0.01
R2		0.8			0.031	
T	2 deg	5 deg	8 deg	2 deg	5 deg	8 deg
T1		6 deg			6 deg	
T2		10 deg			10 deg	

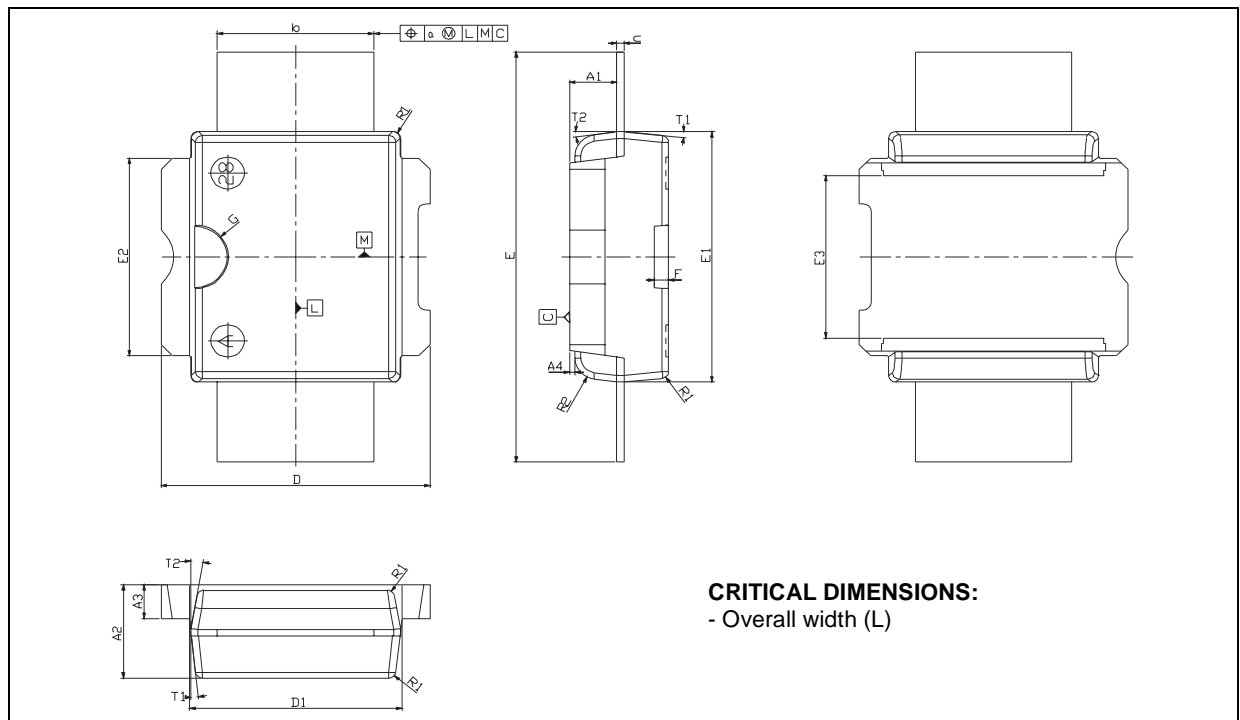
Note (1): Resin protrusions not included (max value: 0.15 mm per side)



PowerSO-10RF Straight Lead MECHANICAL DATA

DIM.	mm			Inch		
	MIN.	TYP.	MAX	MIN.	TYP.	MAX
A1	1.62	1.67	1.72	0.064	0.065	0.068
A2	3.4	3.5	3.6	0.134	0.137	0.142
A3	1.2	1.3	1.4	0.046	0.05	0.054
A4	0.15	0.2	0.25	0.005	0.007	0.009
a		0.2			0.007	
b	5.4	5.53	5.65	0.212	0.217	0.221
c	0.23	0.27	0.32	0.008	0.01	0.012
D	9.4	9.5	9.6	0.370	0.374	0.377
D1	7.4	7.5	7.6	0.290	0.295	0.298
E	15.15	15.4	15.65	0.595	0.606	0.615
E1	9.3	9.4	9.5	0.365	0.37	0.375
E2	7.3	7.4	7.5	0.286	0.292	0.294
E3	5.9	6.1	6.3	0.231	0.24	0.247
F		0.5			0.019	
G		1.2			0.047	
R1			0.25			0.01
R2		0.8			0.031	
T1		6 deg			6 deg	
T2		10 deg			10 deg	

Note (1): Resin protrusions not included (max value: 0.15 mm per side)



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