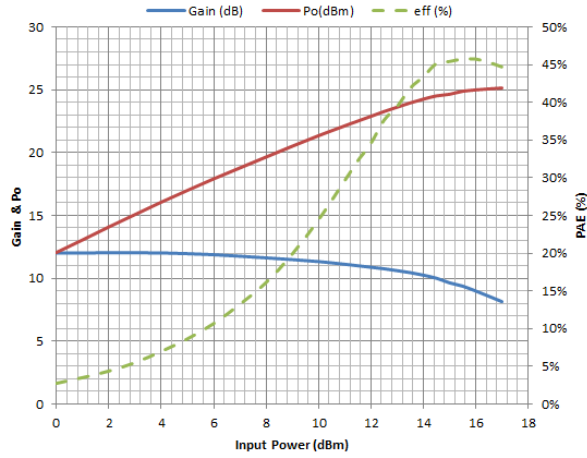
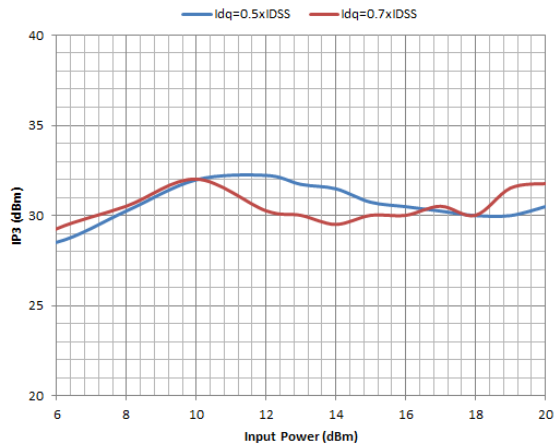


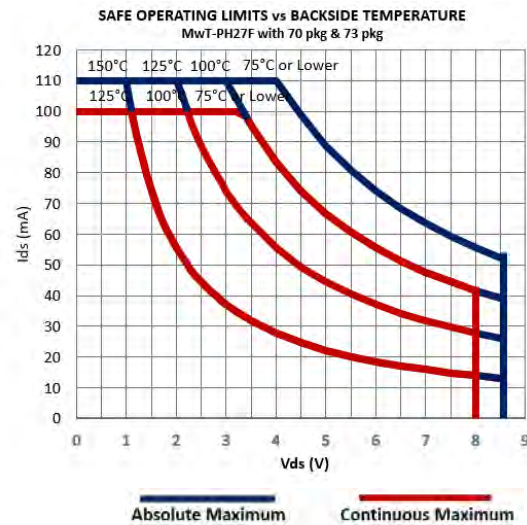
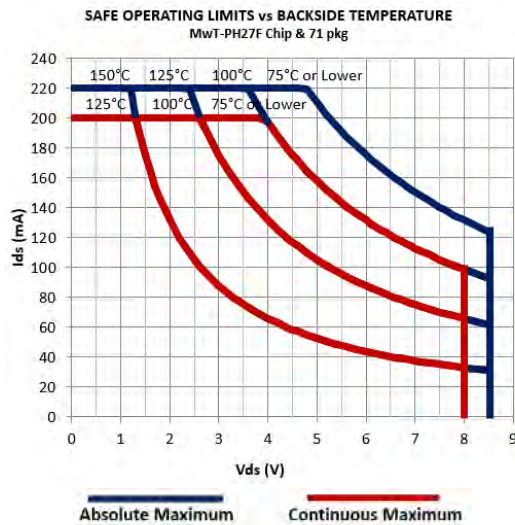
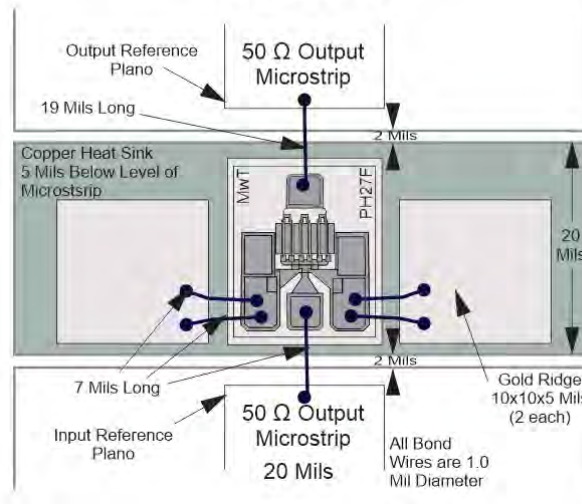
MwT-PH27F, Po, Gain & PAE vs Pin
Vds=8V; Idq=0.7xIdss



MwT-PH27F, OIP3 vs Po/tone
with different Idq



MwT-PH27F DUAL BIAS



Absolute Maximum Rating

Symbol	Parameter	Units	Cont Max1	Absolute Max2
VDS	Drain to Source Volt.	V	8.0	8.5
Tch	Channel Temperature	°C	+150	+175
Tst	Storage Temperature	°C	-65 to +150	+175
Pin	RF Input Power	mW	130	200

Notes:

1. Exceeding any one of these limits in continuous operation may reduce the mean-time-to-failure below the design goal.
2. Exceeding any one of these limits may cause permanent damage.



S-Parameters

S-PARAMETER Vds=8V, Ids= 0.7 x Idss										
Freq. GHz	S11		S21		S12		S22		K	GMAX dB
	dB	Ang (°)	dB	Ang (°)	dB	Ang (°)	dB	Ang (°)		
1	-0.231	-32.694	19.665	158.071	-36.548	72.399	-2.160	-8.934	0.115	28.106
2	-0.640	-61.163	18.651	140.369	-31.601	59.978	-2.672	-15.713	0.166	25.126
3	-1.079	-85.153	17.410	125.221	-29.335	48.992	-3.170	-21.042	0.241	23.373
4	-1.386	-104.475	16.169	112.916	-28.102	41.107	-3.610	-24.819	0.302	22.135
5	-1.761	-119.922	14.784	102.685	-27.581	35.053	-4.099	-28.464	0.417	21.182
6	-1.983	-131.782	13.725	94.677	-27.048	31.418	-4.315	-30.382	0.491	20.387
7	-2.195	-143.772	12.685	86.683	-26.970	28.522	-4.557	-32.770	0.594	19.827
8	-2.134	-152.508	11.837	79.877	-26.604	26.067	-4.718	-37.131	0.599	19.221
9	-2.148	-161.518	10.655	72.635	-26.825	25.021	-5.079	-39.773	0.732	18.740
10	-2.158	-168.517	10.045	66.584	-26.674	22.641	-4.987	-43.411	0.753	18.359
11	-2.025	-175.835	9.363	59.695	-26.844	22.444	-5.178	-46.034	0.794	18.104
12	-1.978	178.553	8.602	54.635	-26.802	21.868	-5.321	-49.977	0.847	17.702
13	-1.996	173.295	7.922	48.918	-26.939	22.962	-5.368	-53.571	0.936	17.430
14	-1.927	168.420	7.163	43.642	-26.876	23.745	-5.449	-57.977	0.978	17.019
15	-1.898	163.936	6.736	38.677	-26.939	25.503	-5.572	-61.784	1.025	15.867
16	-1.827	159.393	6.173	34.214	-26.768	28.271	-5.517	-66.454	0.999	16.470
17	-1.893	155.811	5.549	29.308	-26.693	29.474	-5.498	-72.013	1.104	14.159
18	-1.663	152.829	4.955	25.013	-26.406	32.946	-5.506	-77.229	0.976	15.680
19	-1.645	151.205	4.537	20.792	-26.107	35.919	-5.459	-81.318	0.963	15.322
20	-1.565	145.351	4.104	15.854	-25.883	36.755	-5.557	-86.388	0.943	14.994
21	-1.581	143.051	3.545	9.574	-25.354	38.691	-5.335	-92.138	0.919	14.449
22	-1.579	140.188	3.124	5.470	-25.001	40.464	-5.284	-97.372	0.918	14.063
23	-1.402	138.352	2.664	0.691	-24.223	41.543	-5.284	-103.922	0.745	13.443
24	-1.362	135.736	2.220	-4.336	-23.845	41.498	-5.275	-110.968	0.727	13.033
25	-1.418	133.109	1.672	-8.620	-23.266	42.930	-5.038	-117.456	0.740	12.469
26	-1.321	130.648	1.212	-13.116	-22.760	44.637	-4.872	-123.799	0.653	11.986
27	-1.187	128.092	0.790	-18.101	-22.283	45.873	-4.615	-129.916	0.526	11.537
28	-1.114	127.122	0.390	-22.352	-21.403	41.984	-4.480	-136.444	0.403	10.896
29	-1.131	123.760	-0.153	-26.948	-20.886	42.084	-4.328	-142.815	0.418	10.367
30	-1.124	122.425	-0.592	-31.182	-20.361	40.077	-4.008	-149.395	0.363	9.884

ORDERING INFORMATION:

When placing order or inquiring, please specify wafer number, if known. For details of Safe Handling Procedure please see supplementary information in available PDF on our website www.mwtinc.com. For package information, please see supplementary application note in PDF format by clicking located on our website.

Available Packaging:

- 70 Package - MwT-PH27F70
- 71 Package - MwT-PH27F71
- 73 Package - MwT-PH27F73