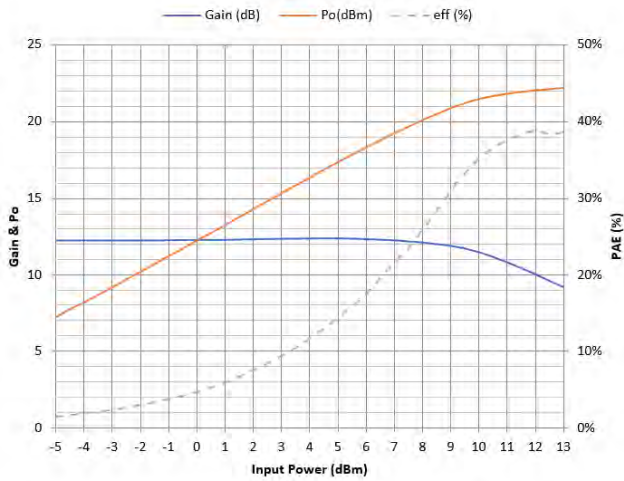
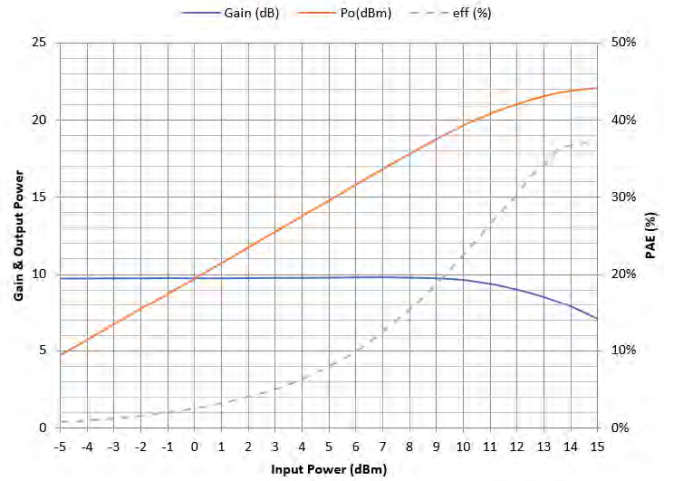


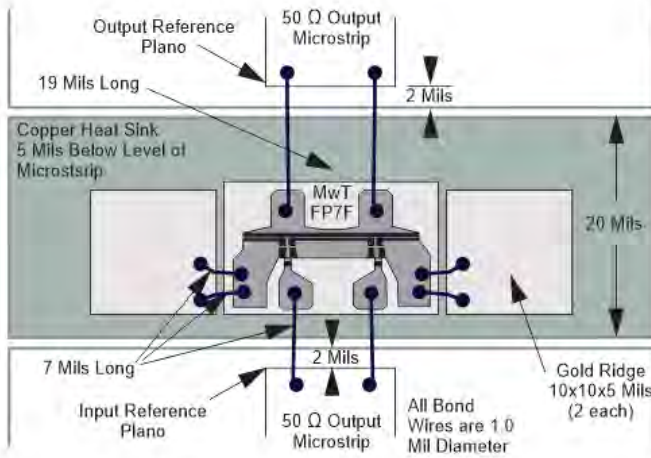
MwT-7F, Typical Power at 12GHz
 $V_{ds}=7V$; $I_{ds}=0.6 \times I_{DSS}$



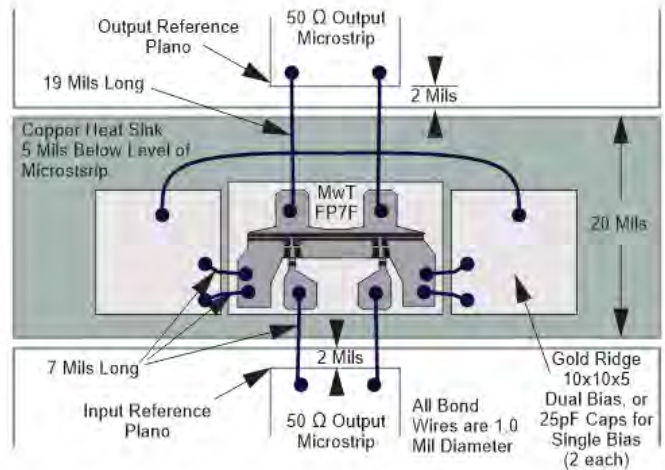
MwT-7F, Typical Power at 18GHz
 $V_{ds}=7V$; $I_{ds}=0.6 \times I_{DSS}$



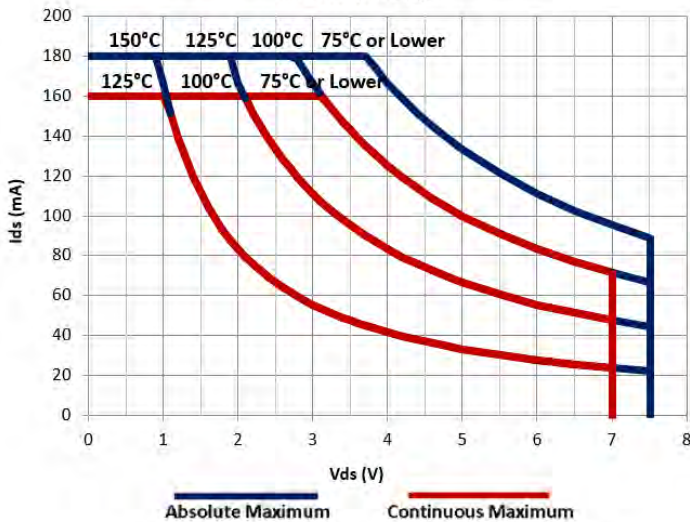
MwT-7F DUAL BIAS



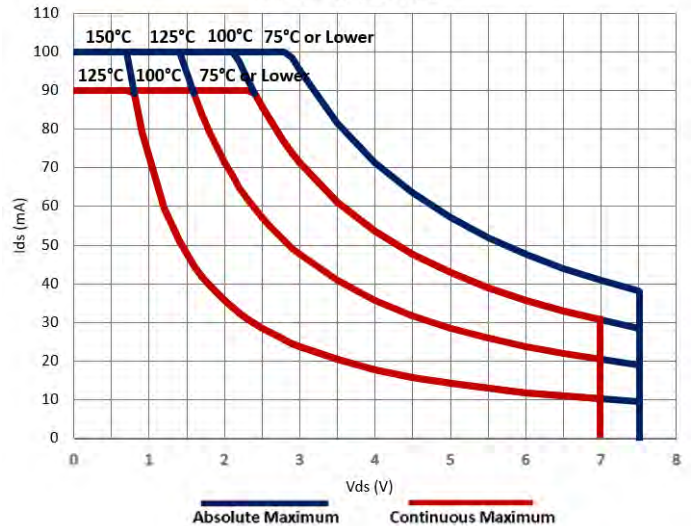
MwT-7F OPTIONAL BONDING



SAFE OPERATING LIMITS vs BACKSIDE TEMPERATURE
MwT-7F Chip & 71 pkg



SAFE OPERATING LIMITS vs BACKSIDE TEMPERATURE
MwT-7F with 70 pkg & 73 pkg



MAXIMUM RATINGS AT Ta = 25 °C

Symbol	Parameter	Units	Cont Max1	Absolute Max2
VDS	Drain to Source Volt.	V	See Safe Operating Limits	
Tch	Channel Temperature	°C	+150	+175
Tst	Storage Temperature	°C	-65 to +150	+175
Pin	RF Input Power	mW	80	120

Notes:

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



MwT-7F

26 GHz Medium Power GaAs FET

S-PARAMETER Vds=6V, Ids= 0.7 x Idss

Freq. GHz	S11		S21		S12		S22		K	GMAX dB
	dB	Ang (°)	dB	Ang (°)	dB	Ang (°)	dB	Ang (°)		
1	-0.498	-10.990	10.175	170.686	-41.693	81.458	-2.335	-4.381	0.893	25.934
2	-0.582	-21.883	10.025	161.933	-35.631	76.775	-2.392	-9.029	0.537	22.828
3	-0.595	-32.489	9.882	153.342	-32.571	71.286	-2.479	-12.917	0.416	21.226
4	-0.854	-41.958	9.630	145.248	-30.386	65.747	-2.545	-16.709	0.482	20.008
5	-1.012	-52.008	9.248	137.024	-28.750	61.358	-2.669	-20.685	0.491	18.999
6	-1.317	-60.380	8.819	129.651	-27.611	56.034	-2.719	-24.087	0.585	18.215
7	-1.308	-70.683	8.482	122.074	-26.643	51.065	-2.921	-26.615	0.572	17.563
8	-1.647	-76.766	8.087	115.568	-26.098	47.441	-3.019	-31.051	0.683	17.093
9	-1.679	-83.673	7.872	108.759	-25.185	44.458	-3.073	-37.449	0.621	16.528
10	-1.921	-93.421	7.409	101.968	-24.956	39.335	-3.200	-39.572	0.727	16.182
11	-1.759	-99.388	7.018	96.243	-24.529	36.131	-3.496	-42.818	0.714	15.773
12	-1.902	-106.018	6.738	90.372	-24.161	32.319	-3.402	-46.227	0.736	15.450
13	-2.146	-112.957	6.439	84.479	-24.083	29.700	-3.217	-50.391	0.773	15.261
14	-2.181	-120.728	5.965	77.818	-23.951	26.960	-3.360	-53.920	0.820	14.958
15	-1.903	-124.452	5.685	73.257	-23.920	24.396	-3.348	-57.984	0.744	14.802
16	-2.323	-130.428	5.198	67.592	-23.824	22.045	-3.472	-60.964	0.934	14.511
17	-2.494	-137.360	4.811	61.971	-23.939	19.772	-3.595	-64.451	1.052	12.986
18	-2.210	-143.696	4.517	56.014	-24.051	17.966	-3.513	-68.062	0.960	14.284
19	-2.108	-146.372	4.175	52.126	-23.983	16.273	-3.504	-72.649	0.936	14.079
20	-2.212	-150.234	3.768	46.823	-24.214	14.476	-3.446	-77.164	1.031	12.911
21	-2.512	-155.237	3.491	43.152	-24.378	14.523	-3.455	-80.552	1.179	11.372
22	-2.194	-159.572	3.120	38.548	-24.300	14.126	-3.392	-84.296	1.040	12.481
23	-2.023	-162.750	2.795	32.613	-24.657	12.653	-3.225	-88.295	1.007	13.204
24	-2.232	-164.405	2.399	29.542	-25.011	13.683	-3.086	-91.882	1.150	11.354
25	-2.215	-169.779	2.116	25.191	-24.712	13.904	-3.060	-95.917	1.088	11.606
26	-1.983	-172.505	1.650	21.285	-24.875	15.290	-2.987	-100.029	1.000	13.262

ORDERING INFORMATION:

When placing order or inquiring, please specify wafer number, if known. All dice are Visual Level 3 (military grade visual screening). MwT cannot guarantee dice will fall at the lower or upper end of the Idss Range. For details of Safe Handling Procedure please see supplementary information in available PDF on our website www.mwtinc.com.

Available Packaging:

- 70 Package - MwT-7F70
- 71 Package - MwT-7F71
- 73 Package - MwT-7F73