

0.75 ... 4.2 GHz

microwave transistors for class C operation

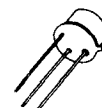
transistors hyperfréquences, classe C



THOMSON-CSF

TYPE	PACKAGE	CONFIG.	VCC (V)	P _{out} (W)	f _o (GHz)	P _{in} (W)	G _p min (dB)	η _c (%)	C _{22b} max (pF)	R _{th} (j-c) (°C/W)
TH 1002	.250 2LFL*	CB	28	2	1	0,2	9,5	50	3	20
TH 1005	.250 2LFL*	CB	28	6,6	1	0,5	10	52	5,5	8
TH 1010	.250 2LFL*	CB	28	12	1	1	10	64	8	5
TH 2001	.250 2LFL*	CB	28	1,1	2	0,2	7	40	3	20
TH 2003	.250 2LFL*	CB	28	3,3	2	0,5	7,8	40	5,5	8
TH 2005	.250 2LFL*	CB	28	5,5	2	1	7	40	8	5
TH 2302	.250 2LFL*	CB	24	1,75	2,3	0,2	9	40	3,5	30
TH 2304	.250 2LFL*	CB	24	3,5	2,3	0,5	8	40	5,5	17
TH 2307	.250 2LFL*	CB	24	7	2,3	1	8	40	8	8,5
TH 3000	.250 2LFL*	CB	28	0,55	3	0,1	7	25	2,5	45
TH 3001	.250 2LFL*	CB	28	1	3	0,2	6,5	30	3	30
TH 3003	.250 2LFL*	CB	28	3	3	0,75	5	30	5	17
TH 3005	.250 2LFL*	CB	28	5	3	1,6	4,5	30	8	8,5
TH 4200	.250 2LFL*	CB	24	0,5	4,2	0,125	6	25	2,5	45
TH 4201	.250 2LFL*	CB	24	1	4,2	0,25	6	25	3,6	25
2N 4428	TO-39	CE	28	>0,75	0,5	0,075	5	—	3,5	50
2N 4429	TO-117	CE	28	>1	1	0,3	5	—	3,5	35
2N 4430	TO-129	CE	28	>2,5	1	0,75	5	—	5	17,5
2N 4431	TO-129	CE	28	>5	1	1,57	5	—	10	9,7
SD 1544	.320 4L STUD HERM	CB	28	>1	2	0,315	5	—	2,5	30,2
SD 1545	.320 4L STUD HERM	CB	28	>2,5	2	0,8	5	—	5	10,9

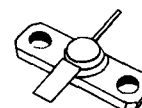
* Package available with or without flange. Boîtier disponible avec ou sans semelle.



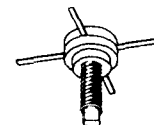
TO-39
(CB-7)



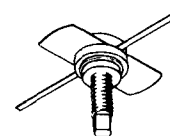
.250 2L/2LM
(CB-311)



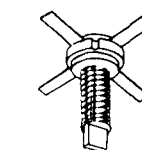
.250 2L FL/FLM
(CB-294)



TO-117
(CB-307)



TO-129
(CB-295)



.320 4L STUD HERM
(CB-287)

2 ... 4 GHz

microwave transistors for class A operation

transistors hyperfréquences, classe A

TYPE	PACKAGE	CONFIG.	BIAS V ₁ /I ₁ (V) (mA)	P _{out} (W)	f _o (GHz)	P _{in} (mW)	G _p (dB)	C _{22b} (pF)	R _{th} (j-c) (°C/W)
TH 064	.250 2LFL*	CE	18/50	0,14	2	14	>8	< 2,5	45
TH 195	.250 2LFL*	CE	18/140	0,63	2	89	>8	< 3,5	35
TH 196	.250 2LFL*	CE	18/220	1,1	2	175	>8	5	17,5
TH 197	.250 2LFL*	CE	18/360	1,5	2	300	>6	< 7	15
BLW 27	.250 2LFL*	CE	12/60	0,16	3	25	8	2,5	45
TH 264	.250 2LFL*	CE	12/60	0,1	4	25	>6	2,5	45

* Package available with or without flange, ceramic or metallic cap.
Boîtier disponible avec ou sans semelle, avec capot métallique ou ceramic.

0.7 ... 2.5 GHz

microwave transistors for oscillators

transistors hyperfréquences pour oscillateurs

TYPE	PACKAGE	CONFIG.	VCC (V)	P _{out} (W)	Frequency range (GHz)	η _c (%)	C _{22b} max (pF)	R _{th} (j-c) (°C/W)
TH 9021	.250 2LFL*	CC	24	>1,3	0,7 ... 1,2	>40	3	25
TH 9023	.250 2LFL*	CC	24	>4	0,7 ... 1,2	>40	7	17,5
TH 9030	.250 2LFL*	CC	24	0,55	1,5 ... 2,5	25	2,5	45
TH 9031	.250 2LFL*	CC	24	1	1,5 ... 2,5	35	3,5	30
TH 9033	.250 2LFL*	CC	24	1,75	1,5 ... 2,5	30	5	17

* Package available with or without flange.
Boîtier disponible avec ou sans semelle.

cross reference

liste d'équivalence



THOMSON-CSF product line for RF power transistors has successfully cross referenced many competitive transistor products. In most cases, these replacement transistors directly replace the competitive parts for DC and RF parameters in actual operating systems. It is possible, however, that a mechanical difference may exist.

COMP. TYPE NO.	THOMSON-CSF TYPE (NEAREST)	COMP. TYPE NO.	THOMSON-CSF TYPE (NEAREST)	COMP. TYPE NO.	THOMSON-CSF TYPE (NEAREST)	COMP. TYPE NO.	THOMSON-CSF TYPE (NEAREST)	COMP. TYPE NO.	THOMSON-CSF TYPE (NEAREST)	COMP. TYPE NO.	THOMSON-CSF TYPE (NEAREST)
BAM20	2N5642	B25-12	2N6082	MM1668	2N6084	MSC2304	TH2304	PT8809	SD1134	2N5689	SD1014
BAM40	2N5643	B25-28	SD1015	MM1669	2N6084	MSC2307	TH2307	PT8810	SD1135	2N5690	SD1229
BAM80	SD1019-5	B30-12	SD1229	MM1680	2N6080	MSC4000	TH4200	PT8811	SD1136	2N5691	SD1018
BAM120	SD1407	B40-12	2N6084	MM1681	2N6081	MSC4001	TH4201	PT8828	SD1133	2N5697	SD1080
BFR90	SD1301	B40-28	2N5643	MM4020	2N6094	MSC80064	TH064	PT8837	SD1014	2N5698	SD1115-2
BFR98	2N5944	B70-28	SD1019	MM4021	2N6095	MSC80195	TH195	PT8838	SD1278	2N5699	2N5945
BFS22A	SD1212-1	CD1608	SD1012	MM4022	2N6096	MSC80196	TH196	PT9380	SD1457	2N5703	SD1256
BFS23A	SD1212-1	CD1609	SD1014	MM4023	2N6097	MSC80197	TH197	PT9383	SD1460	2N5710	SD1200
BFS50	SD1080	CD1610	SD1229	MM8001	SD1006	MSC80264	TH264	PT9731	SD1015	2N5711	SD1201
BFS51	2N4427	CD1611	SD1278	MM8002	SD1006	MSC82001	TH2001	PT9732	SD1013	2N5712	2N5642
BFW46	2N3924	CD1616	2N5945	MM8003	SD1006	MSC82003	TH2003	PT9733	SD1219	2N5713	2N5642
BFW47	2N3553	CD1617	2N5946	MM8006	SD1300	MSC82005	TH2005	PT9734	SD1244	2N5714	2N5643
BFW98	2N5944	CD1802	SD1143	MM8007	SD1300	MSC83000	TH3000	PT9780	SD1407	2N5733	2N5635
BFX49	2N3866	CM10-12	SD1429-3	MM8008	2N4428	MSC83001	TH3001	PT9788	SD1224-4	2N5774	2N5636
BFX62	2N2857	CM10-12A	SD1429-3	MM8009	2N4428	MSC83003	TH3003	PT9788A	SD1224	2N5829	SD1375
BFX89	SD1300	CM20-12A	SD1422	MM8010	2N4428	MSC83005	TH3005	PT9795	SD1229-1	2N5835	SD1300
BFY44	2N3553	CM25-12	SD1422	MM8011	2N4428	PT2677B	SD1012	PT9795A	SD1129	2N5841	SD1345
BFY70	2N3553	CM30-12A	SD1488	MM8012	SD1005-4	PT3500	2N3553	PT9796	SD1290-3	2N5842	SD1345
BFY90	SD1300	CM40-12	SD1488	MRA0913-2	SD1378	PT3501	SD1080	PT9797	SD1451	2N5846	SD1012
BLV33F	SD1222-5	CM45-12A	SD1434	MRF212	SD1133	PT3503	SD1256	S10-12	SD1285	2N5847	SD1014
BLW35	2N3926	CM50-12A	SD1434	MRF221	SD1014-6	PT3536	2N5944	S30-12	SD1290	2N5848	SD1229
BLW42	2N5944	CM75-12	SD1499-1	MRF222	SD1219-1	PT3537	2N5945	S50-12	SD1451	2N5849	SD1018
BLW43	2N5945	C1-12	SD1144	MRF223	SD1229-1	PT3570	SD1006	S70-12	SD1076	2N5851	SD1301
BLW44	2N5944	C2-82	SD1482	MRF224	SD1018-6	PT3571	SD1006	S80-12	SD1076	2N5852	SD1301
BLW85	SD1018-6	C2M60-28R	SD1468	MRF225	SD1134-1	PT3571A	SD1006	S100-28	SD1407	2N5914	2N5944
BLW98	TH598	C2M70-28R	SD1468	MRF226	SD1143	PT3571B	SD1006	S175-28	SD1450	2N5915	2N5946
BLX15	THX15	C3-12	2N5945	MRF227	SD1444	PT4531	2N5944	TP1045	SD1134	2N5993	SD1229-1
BLX53	2N5946	C12-12	2N5946	MRF231	SD1012	PT4532	2N5945	TP2503	SD1135-3	2N5994	2N5643
BLX65	SD1134-1	C12-28	SD1244	MRF232	SD1014	PT4533	2N4431	TPV375	SD1455	2N5995	SD1143
BLX66	2N5944	DM5-12BA	SD1410	MRF233	SD1229	PT4534	2N5946	TPV376	SD1459	2N5996	2N6081
BLX67	2N5945	DM10-12BA	SD1418	MRF234	SD1229	PT4537	SD1115-2	TPV385	SD1458	2N6166	SD1019-5
BLX68	2N5946	DM20-12BA	SD1421	MRF237	SD1127	PT4544	SD1143	TPV596	TH596	2N6197	2N3553
BLX96	TH596	DM30-12BA	SD1421	MRF238	SD1272	PT4556	SD1018	TPV597	TH597	2N6198	2N5641
BLX98	TH598	DM30P	SD1530	MRF244	SD1416	PT4570	SD1005	TPV598	TH598	2N6199	2N5642
BLY22	SD1012	DM100P	SD1536	MRF245	SD1416	PT4571	SD1006	2N917	2N918	2N6200	2N5643
BLY33	SD1065	DM150PA	SD1538	MRF313	SD1020-6	PT4571A	SD1006	2N917A	2N918	2N6201	SD1019-5
BLY34	2N6255	DM150PB	SD1538	MRF313A	SD1020-5	PT4572A	SD1005	2N2616	2N918	2N6204	2N5637
BLY35	2N5642	DM250P	SD1540	MRF314	SD1015	PT4627	2N5641	2N2708	2N918	2N6368	SD1285
BLY36	2N3927	D1-12B	SD1409	MRF317	SD1480	PT5604	2N3553	2N2934	2N918	2N6457	SD1285
BLY38	2N5944	D1-28	SD1544	MRF327	SD1468	PT5610	SD1229	2N3287	SD1310	2N6458	SD1285
BLY53	2N5946	D3-28	SD1545	MRF401	SD1224	PT5640	SD1014	2N3288	SD1310	2N6459	SD1285
BLY53A	2N5946	JO1006	SD1480	MRF402	SD1020	PT5649	SD1014-1	2N3289	SD1310	2N6460	SD1076
BLY55	2N3926	JO1008	SD1480	MRF422	SD1450	PT5650	2N5642	2N3290	SD1310	40279	2N3375
BLY57	2N3926	JO2015	SD1468	MRF452	SD1405	PT5653	2N4428	2N3291	SD1310	40280	2N3924
BLY58	2N3927	JO2015A	SD1468	MRF454	SD1405	PT5654	SD1256	2N3292	SD1310	40281	2N3926
BLY59	2N3375	JO3025	SD1488	MRF501	SD1300	PT5655	SD1202	2N3293	SD1310	40282	2N3927
BLY60	2N3632	JO3030	SD1488	MRF502	SD1300	PT5656	SD1202	2N3294	SD1310	40290	2N3553
BLY61	2N4427	JO3040	SD1488	MRF509	SD1020-8	PT5690	2N5643	2N3375	2N3375	40291	2N3632
BLY79	2N3927	JO3055	SD1434	MRF510	SD1300	PT5693	2N5591	2N3544	2N918	40292	2N3632
BLY83	SD1143	JO4030	SD1428	MRF515	SD1144-1	PT5701	SD1080	2N3553	2N3553	40578	2N3866
BLY84	2N5590	JO4040	SD1428	MRF601	SD1080-2	PT5707	SD1013	2N3563	2N918	40608	SD1006
BLY85	2N5589	JO4070	SD1416	MRF603	SD1143	PT5708	SD1019	2N3564	2N918	40893	2N5946
BLY87A	2N6080	LT1001A	SD1315	MRF604	SD1080-4	PT5741	SD1285	2N3682	2N918	40934	2N5944
BLY88A	2N6081	LT2001	SD1315	MRF606	SD1144-1	PT5742	SD1076	2N3839	SD1300	40953	2N5913
BLY89A	2N6082	MM1549	2N5635	MRF607	SD1144-1	PT5749	2N5636	2N4040	2N5636	40954	SD1143
BLY90	2N6084	MM1550	2N5636	MRF618	SD1429-3	PT5750	2N5636	2N4041	2N5635	40955	SD1272
BLY91A	2N5641	MM1551	2N5637	MRF619	SD1088	PT5751	2N5637	2N4072	SD1300	40967	2N5944
BLY92A	2N5642	MM1552	SD1019	MRF620	SD1089	PT5788	SD1487	2N4127	2N6081	40968	2N5946
BLY93A	2N5643	MM1553	SD1224	MRF621	SD1434	PT6670	2N5637	2N4128	2N6082	40970	SD1488
BLY94	SD1019-5	MM1557	2N5641	MRF626	SD1080-6	PT6680	2N5636	2N4292	2N918	40971	SD1488
BM45-12	SD1428	MM1558	2N5642	MRF627	SD1080-7	PT6681	2N5636	2N4293	2N918	40972	2N5913
BM70-12	SD1416	MM1559	2N5643	MRF628	SD1080-2	PT6727	SD1015	2N4932	SD1014	40973	2N6081
BM80-12	SD1416	MM1561	SD1019	MRF629	SD1131	PT6729	SD1019-5	2N5053	SD1300	40974	2N6082
BM100-12	SD1477	MM1601	2N5589	MRF631	SD1144	PT8549	SD1214	2N5054	SD1300	40976	2N3553
BM100-28	SD1480	MM1602	2N5590	MRF632	SD1144	PT8710	SD1238	2N5126	2N918	40977	2N5642
BM150-12	SD1441	MM1603	2N5591	MRF633	SD1145	PT8717	SD1115-2	2N5127	2N918	41008	SD1080-2
B3-12	2N6080	MM1612	SD1212-1	MRF644	SD1088	PT8725	2N6080	2N5130	2N918	41008A	SD1080-2
B8-12	SD1133	MM1660	2N5944	MRF646	SD1434	PT8740	SD1134-1	2N5644	2N5944	41009A	2N5945
B12-12	SD1143	MM1661	2N5945	MSC1002	TH1002	PT8741	2N5945	2N5645	2N5945	41010	2N5946
B12-28	SD1013	MM1662	2N5946	MSC1005	TH1005	PT8742	SD1146	2N5646	2N5946		
B15-12	SD1014	MM1666	2N6082	MSC1010	TH1010	PT8743	SD1136	2N5687	2N4427		
		MM1667	2N6083	MSC2302	TH2302	PT8769	SD1229	2N5688	SD1014		