

SGS-THOMSON offers the broadest variety of product in the industry specifically characterized for avionics applications. Devices are grouped according to frequency range of application and are available in several package configurations.

1025-1150 MHz CLASS C, COMMON BASE, PULSED, DME/TACAN

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN (W)	P _{IN} (W)	GAIN MIN (dB)	η_C MIN (%)	V _{CC} (V)	R _{TH(j-c)} MAX (°C/W)	PACKAGE STYLE
MSC1000M*	1025-1150	0.6	0.05	9.0	CL.A	18	35	S058
MSC1000MP*	1025-1150	0.6	0.05	9.0	CL.A	18	35	S053
MSC1004M	1025-1150	4	0.5	9.0	35	28	5	S068
MSC1004MP	1025-1150	4	0.5	9.0	35	28	5	S051
SD1528-06	1025-1150	15	1.5	10.0	30	50	2	M115
SD1528-08	1025-1150	15	1.5	10.0	30	50	2	M105
MSC81035M	1025-1150	35	3	10.6	43	50	1	S068
MSC81035MP	1025-1150	35	3	10.6	43	50	1	S051
SD1530-01	1025-1150	35	5.6	8.0	30	50	2	M115
SD1530-08	1025-1150	35	5.0	8.5	30	50	2	M105
SD1534-01	1025-1150	75	13	7.6	—	50	0.8	M115
SD1534-08	1025-1150	75	13.5	7.4	—	50	0.8	M105
SD1536-03	1025-1150	90	13	8.4	—	50	0.6	M115
SD1536-08	1025-1150	90	13	8.4	—	50	0.6	M105
SD1538-02	1025-1150	150	25	7.8	—	50	0.3	M103
SD1538-08	1025-1150	150	25	7.8	—	50	0.3	M138
MSC81250M	1025-1150	250	60	6.2	40	50	0.2	S042
SD1540	1025-1150	300	70	6.3	35	50	0.2	M103
SD1540-08	1025-1150	300	70	6.3	35	50	0.2	M138
MSC81325M	1025-1150	325	70	6.7	40	50	0.17	S042
SD1541-01	1025-1150	400	90	6.5	—	50	0.12	M112
MSC81400M	1025-1150	400	90	6.5	40	50	0.12	S038
SD1542	1025-1150	550	150	5.6	—	50	0.06	M112

* Common Emitter, Tested CW

Pulse Conditions 10 μ Sec, 1% Duty Cycle unless otherwise specified

1030/1090 MHz CLASS C, COMMON BASE, PULSED, IFF APPLICATIONS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN (W)	P _{IN} (W)	GAIN MIN (dB)	η _C MIN (%)	V _{CC} (V)	R _{TH(j-c)} MAX (°C/W)	PACKAGE STYLE
MSC81350M	1090	350	70	6.9	40	50	0.17	S042
SD1541-09	1090	450	90	7.0	—	50	0.12	M112
MSC81450M	1090	450	90	7.0	40	50	0.15	S038
SD1542-04	1090	600	150	6.0	—	50	0.06	M112
SD1542-42*	1090	600	150	6.0	35	50	0.06	M112

Pulse Conditions 10μSec, 1% Duty Cycle unless otherwise specified

* Tested in MSC81600M test circuit

1030/1090 MHz CLASS C, COMMON BASE, PULSED, SPECIAL APPLICATIONS (MODE-S, TCAS)

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN (W)	P _{IN} (W)	GAIN MIN (dB)	η _C MIN (%)	V _{CC} (V)	R _{TH(j-c)} MAX (°C/W)	PULSE WIDTH (μSEC)	DUTY CYCLE (%)	PACKAGE STYLE
AM1011-075	1090	75	9	9.2	48	50	0.86	32	2	S036
AM1011-400	1090	400	63	8.0	45	50	0.17	32	2	S038
AM1011-500	1090	500	70	8.5	40	50	0.11	32	2	M198
AM1011-070	1090	70	15	6.7	45	28	0.68	100	2	S042
AM1011-300	1030/1090	300	55	7.3	40	36	0.14	200*	5*	M207

* Pulse conditions equivalent to Mode-S ground interrogator burst

960-1215 MHz CLASS C, COMMON BASE, PULSED, TACAN APPLICATIONS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN. (W)	P _{IN} (W)	GAIN MIN. (dB)	η _C MIN. (%)	V _{CC} (V)	R _{TH(j-c)} MAX. (°C/W)	PULSE WIDTH (μSEC)	DUTY CYCLE (%)	PACKAGE STYLE
AM0912-080	960-1215	90	13	8.4	38	50	0.80	10	10	S042
SD8250	960-1215	250	40	8.0	38	50	0.28	20	5	S036
AM0912-300	960-1215	300	60	7.0	38	50	0.16	10	10	S038

960-1215 MHz CLASS C, COMMON BASE, PULSED, JTIDS/MIDS/TACAN APPLICATIONS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN. (W)	P _{IN} (W)	GAIN MIN (dB)	η _C MIN (%)	V _{CC} (V)	R _{TH(j-c)} MAX (°C/W)	PACKAGE STYLE
AM80912-005	960-1215	6	0.7	9.3	45	28	7.0	S064
AM80912-015	960-1215	15	2.3	8.1	45	28	3.0	S064
AM80912-030	960-1215	30	5.0	7.8	40	35	2.2	S036
AM80912-085	960-1215	85	15	7.5	40	35	0.75	S042
AM0912-150	960-1215	150	26.7	7.5	45	35	0.57	S038

Note: Devices are characterized and tested under JTIDS pulse burst conditions.