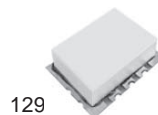


MODULATORS

BPSK

SURFACE-MOUNT MODELS



INPUT CARRIER FREQUENCY (MHz)	INSERTION LOSS (dB) TYP/MAX	AMPLITUDE UNBALANCE (dB) MAX	PHASE UNBALANCE (Degrees) MAX	INPUT 1 dB COMP. PT. (dBm) MIN	VSWR MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1 - 200	3.5/4.5	0.4	4.0	+ 1	1.8:1	134	1	SBM-K1
2 - 600	4.5/5.5	0.4	4.0	+ 1	1.8:1	134	1	SBM-K2
1 - 200	2.5/4.5	0.4	2.0	+ 1	2.0:1	129	2	SBM-C1
2 - 600	2.5/4.5	0.4	2.0	+ 1	2.0:1	129	2	SBM-C2

THROUGH HOLE MODELS

8 PIN - RELAY CAN



INPUT CARRIER FREQUENCY (MHz)	INSERTION LOSS (dB) TYP/MAX	AMPLITUDE UNBALANCE (dB) MAX	PHASE UNBALANCE (Degrees) MAX	INPUT 1 dB COMP. PT. (dBm) MIN	VSWR MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1 - 400	1.5/3.0	0.2	2.0	+ 1	1.5:1	103	3	MP-205
1 - 400	1.5/3.0	0.2	2.0	+ 10	1.5:1	103	3	MP-215
10 - 900	2.5/4.5	0.4	2.0	+ 1	2.0:1	103	3	MP-207
10 - 900	2.5/4.5	0.4	2.0	+ 10	2.0:1	103	3	MP-217

TO-8 (12 PIN)



INPUT CARRIER FREQUENCY (MHz)	INSERTION LOSS (dB) TYP/MAX	AMPLITUDE UNBALANCE (dB) MAX	PHASE UNBALANCE (Degrees) MAX	INPUT 1 dB COMP. PT. (dBm) MIN	VSWR MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1 - 400	1.5/3.0	0.2	2.0	+ 1	1.5:1	104	4	MP-201
1 - 400	1.5/3.0	0.2	2.0	+ 10	1.5:1	104	4	MP-211
10 - 900	2.5/4.5	0.4	2.0	+ 1	2.0:1	104	4	MP-203
10 - 900	2.5/4.5	0.4	2.0	+ 10	2.0:1	104	4	MP-213

Notes:

Logic 1 corresponds to +20 mA and Logic 0 corresponds to -20 mA.

Nominal input/output impedance = 50 ohms.

Maximum RF input power without damage 75 mW or 40 mA.

PIN-OUT TABLE

	INPUT	OUTPUT	D1	D2	CASE GND	NO CONN.
#1	1	4	5	2	3,6	
#2	1	3	6	4	7,8,9,10	2,5
#3	8	1	*3,4	*5,6	2,7	
#4	11	8	2	5	All other	

For pin location and package outline drawings, see back pages.

*Connect pins together externally.

MODULATORS

BPSK



FLAT PACK MODELS

INPUT CARRIER FREQUENCY (MHz)	INSERTION LOSS (dB) TYP/MAX	AMPLITUDE UNBALANCE (dB) MAX	PHASE UNBALANCE (Degrees) MAX	INPUT 1 dB COMP. PT. (dBm) MIN	VSWR MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1 - 400	1.5/3.0	0.2	2.0	+ 1	1.5:1	101	1	MF-206
1 - 400	1.5/3.0	0.2	2.0	+ 10	1.5:1	101	1	MF-216
10 - 900	2.5/4.5	0.4	2.0	+ 1	2.0:1	101	1	MF-208
10 - 900	2.5/4.5	0.4	2.0	+ 10	2.0:1	101	1	MF-218
40 - 1150	3.9/4.5	0.4	4.0	+ 1	3.0:1	101	2	MF-210†
40 - 1150	3.9/4.5	0.4	4.0	+ 10	3.0:1	101	2	MF-220†



110



113

COAXIAL (SMA) CONNECTOR MODELS

INPUT CARRIER FREQUENCY (MHz)	INSERTION LOSS (dB) TYP/MAX	AMPLITUDE UNBALANCE (dB) MAX	PHASE UNBALANCE (Degrees) MAX	INPUT 1 dB COMP. PT. (dBm) MIN	VSWR MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1 - 400	1.5/3.0	0.2	2.0	+ 1	1.5:1	113	3	MK-701S
1 - 400	1.5/3.0	0.2	2.0	+ 10	1.5:1	113	3	MK-711S
10 - 900	2.5/4.5	0.4	2.0	+ 1	2.0:1	110	4	MK-702S
10 - 900	2.5/4.5	0.4	2.0	+ 10	2.0:1	113	3	MK-712S
40 - 1150	3.9/4.5	0.4	4.0	+ 1	3.0:1	110	4	MK-703S†
40 - 1150	3.9/4.5	0.4	4.0	+ 10	3.0:1	110	4	MK-713S†

† Require external bipolar squarewave driver capable of generating +/-20 mA.

Notes:

Logic 1 corresponds to +20 mA and Logic 0 corresponds to -20 mA.

Nominal input/output impedance = 50 ohms.

Maximum RF input power without damage 75 mW or 40 mA.

PIN-OUT TABLE

	INPUT	OUTPUT	D1	D2	CASE GND
#1	4	1	5	8	2,3,6,7
#2	4	1	5	-	2,3,6,7,8
#3	1	3	2	4	
#4	1	3	2	-	

For pin location and package outline drawings, see back pages.