

X2 Frequency Multiplier

50Ω Output 10 to 1000 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Input Power 200mW

Permanent damage may occur if any of these limits are exceeded.

Features

- wideband, 10 to 1000 MHz
- low conversion loss, 13.5 dB typ.
- rugged shielded case

Applications

- synthesizers
- local oscillators

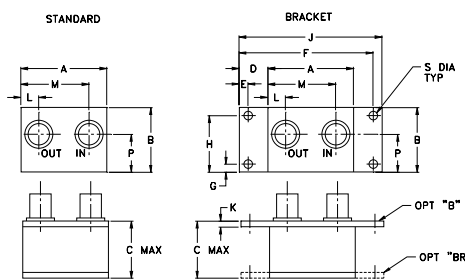
MK-2



CASE STYLE: L19

Connectors Model
SMA MK-2
BRACKET (OPTION "B")
BRACKET (OPTION "BR")

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H
1.50	1.13	1.00	.50	.155	2.345	.138	.987
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07

J	K	L	M	N	P	S	wt
2.50	.10	.31	1.19	--	.66	.150	grams
63.50	2.54	7.87	30.23	--	16.76	3.81	37.0

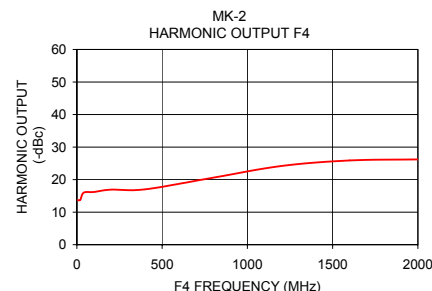
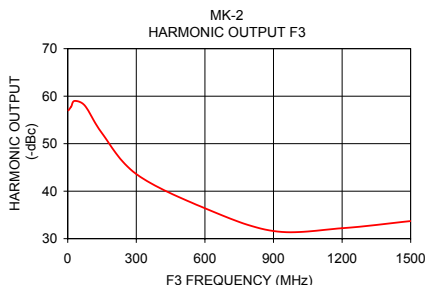
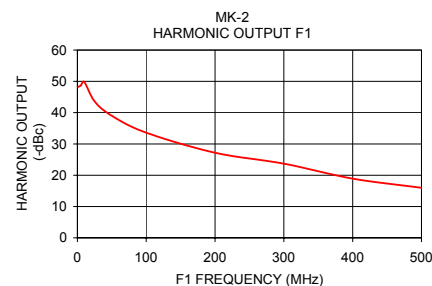
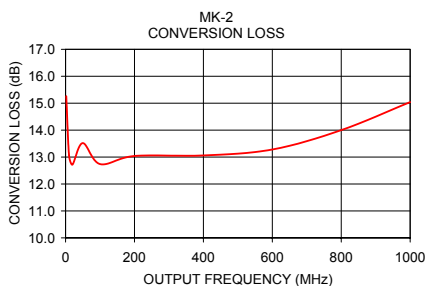
Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1 Input	F2 Output	Min.	Max.	Typ.	Max.	F1 Typ.	F1 Min.	F3 Typ.	F3 Min.	F4 Typ.	F4 Min.
2	5-100	10-200	1	15	13.0	16.0	40	30	50	40	16	12
	100-300	200-600	1	15	13.5	15.5	25	20	40	30	16	12
	300-500	600-1000	1	15	14.0	16.5	20	15	30	25	16	12

* Harmonics of input frequency below the power level of F2

Typical Performance Data

Input Frequency (MHz)	Conversion Loss (dB) F2	Harmonic Output (-dBc)		
		F1	F3	F4
1.00	15.26	48.20	57.00	13.70
5.00	13.06	48.70	57.80	13.80
10.00	12.72	49.80	59.00	16.00
25.00	13.52	43.60	58.00	16.20
50.00	12.74	39.00	52.20	16.90
100.00	13.04	33.60	43.60	17.00
200.00	13.06	27.20	36.40	20.60
300.00	13.28	23.70	31.60	24.20
400.00	14.00	18.90	32.20	25.90
500.00	15.04	16.00	33.70	26.20



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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