

X2 Frequency Multiplier

KBA-40+ KBA-40

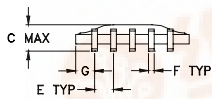
50Ω Output 5400 to 9600 MHz



Operating Temperature	-40°C to 85 °C
Storage Temperature	-55°C to 100°C
RF Input Power	200mW

INPUT	10
OUTPUT	6
SAMPLE*	1
GROUND	2,3,4,5,7,8,9

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1	F2					F1		F3		F4	
	Input	Output	Min.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.
2	2700-4800	5400-9600	10	16	12.3	17.6	18	10	26	15	24	14
	2700-4800	5400-9600	5	10	13	19	15	8	26	16	26	12

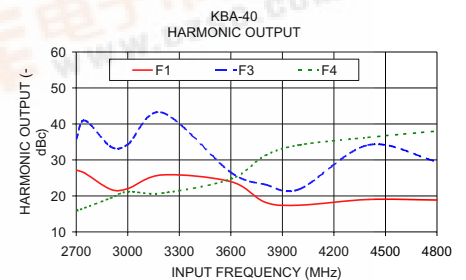
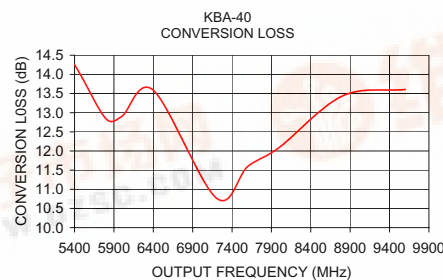


A	B	C	D	E	F	G	H	
.250	.300	.095	.290	.050	.015	.050	.060	
6.35	7.62	2.41	7.37	1.27	0.38	1.27	1.52	
J	K	L	M	N	P	Q	R	wt
.030	.080	.300	.100	.020	.015	.070	.014	grams
0.76	2.03	7.62	2.54	0.51	0.38	1.78	0.36	0.3

Figure 1: Pin 1 location and package outline. The diagram shows a 4x4 grid of pins. Pin 1 is at the bottom-left corner. Dimensions include .044, 3 PL. TRACE WIDTH (SEE NOTE BELOW), .130 TYP, .029, and .758. A dashed line indicates the PACKAGE OUTLINE. A note specifies 17 X .015 PTH, FOR GROUND.

REMOVES COPPER LAND PATTERN FREE OF SOLDER MASK

Output Frequency (MHz)	Conversion Loss (dB)	Input Frequency (MHz)	Harmonic Output (-dBc)		
			F1	F3	F4
5400.00	14.26	2700.00	27.19	35.82	15.80
5500.00	13.90	2750.00	26.33	40.98	16.70
5800.00	12.84	2900.00	21.84	33.70	19.39
6000.00	12.90	3000.00	22.03	34.30	21.18
6400.00	13.59	3200.00	25.82	43.18	20.79
7200.00	10.77	3600.00	23.96	26.54	24.70
7600.00	11.60	3800.00	18.24	23.18	31.24
8000.00	12.09	4000.00	17.42	21.89	34.19
8800.00	13.44	4400.00	19.00	34.16	36.27
9600.00	13.61	4800.00	18.85	29.53	38.03



Mini-Circuits®
ISO 9001 / ISO 14001 CERTIFIED

ALL NEW
minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

REV. D