

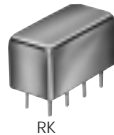
FREQUENCY DOUBLERS 50Ω

Surface Mount □

High HARMONIC REJECTION 50 kHz to 9600 MHz

SURFACE MOUNT

BLUE CELL™



MODEL NO.	FREQUENCY MHz		RF INPUT PWR dBm		CONVERSION LOSS dB			*HARMONIC OUTPUT dBc				CASE STYLE	FINISH	PRICE \$		
	Input	Output	Min.	Max.	Input freq.	Typ.	Max.	F1 Typ.	F1 Min.	F3 Typ.	F3 Min.				F4 Typ.	F4 Min.
◆ KBA-20*	1600-2200	3200-4400	11	15	1600-2200	12	15.8	12	7	20	13	23	10	SM2	In	9.95***
◆ KBA-40*	2700-4800	5400-9600	10	16	2700-4800	12.3	17.6	18	10	26	15	24	14	SM2	ne	14.95
			5	10	2700-4800	13	19	15	8	26	16	26	12			
SYK-2R	10-1000	20-2000	12	16	10-500	10.5	14.0	35	25	42	25	20	10	TTT167	gc	29.95
					500-1000	11.5	16.0	32	20	37	20	20	10			
SK-2	1-500	2-1000	1	10	1-100	13.0	15.0	40	30	50	40	16	12	B02	df	26.45
					100-300	13.5	15.5	25	20	40	30	16	12			
					300-500	14.0	17.5	20	15	30	25	16	12			
AK-2	1-500	2-1000	1	10	1-100	13.0	15.0	40	30	50	40	16	12	A03	dg	20.95
					100-300	13.5	15.5	25	20	40	30	16	12			
					300-500	14.0	17.5	20	15	30	25	16	12			
AK-3000	70-1500	140-3000	12	15	70-1000	10.5	14.0	31	20	40	25	14	10	A03	ga	59.95
					1000-1500	11.5	16.0	22	15	30	20	30	14			
RK-2	5-500	10-1000	1	15	5-100	13.0	16.0	40	30	50	40	16	12	A01	dg	17.95
					100-300	13.5	15.5	25	20	40	30	16	12			
					300-500	14.0	16.5	20	15	30	25	16	12			
RK-3	0.05-150	0.1-300	0	13	0.05-50	11.0	17.0	40	28	45	30	16	8	A01	dh	15.95
					50-150	11.5	15.0	35	20	40	20	16	12			
RK-5	10-800	20-1600	10	20	10-100	13.0	15.0	20	12	25	20	15	12	A01	dg	49.95
					100-400	12.5	16.0	20	12	30	20	15	12			
					400-800	13.0	16.0	20	12	25	18	15	10			
RK-3000	70-1500	140-3000	12	15	70-1000	11.0	14.0	31	20	40	25	15	10	A01	ga	54.95
					1000-1500	12.0	17.5	22	15	30	20	30	14			
FD-2	5-500	10-1000	1	15	5-100	13.0	16.0	40	30	50	40	16	12	FF55	-	40.95
					100-300	13.5	15.5	25	20	40	30	16	12			
					300-500	14.0	16.5	20	15	30	25	16	12			
FK-5	10-1000	20-2000	10**	20	10-600	13.0	15.0	20	10	16	20	15	10	H16	-	69.95
					600-1000	14.0	17.0	20	10	25	20	25	15			
▲ FK-3000	70-1500	140-3000	12	15	70-1000	11.0	14.0	31	20	40	25	15	10	H16	-	79.95
					1000-1500	12.0	17.5	22	15	30	20	30	14			

see suggested PCB layout PL-066 for KBA-20
PL-067 for KBA-40

NOTES:

- ◆ Aqueous washable
- Non-hermetic
- * Harmonic output below power level of F2
- * BLUE CELL™ mixers protected by U.S. Patents 5,534,830, 5,640,132, 5,640,134, 5,640,699
- ** Minimum input power +13 dBm above 700 MHz
- *** Price for quantities 10-49
- ▲ Available only with SMA connectors
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (section 0).
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current rating:
 - 1a. RF Input power, 200mW
 - 1b. FD-2 input is at Male BNC.



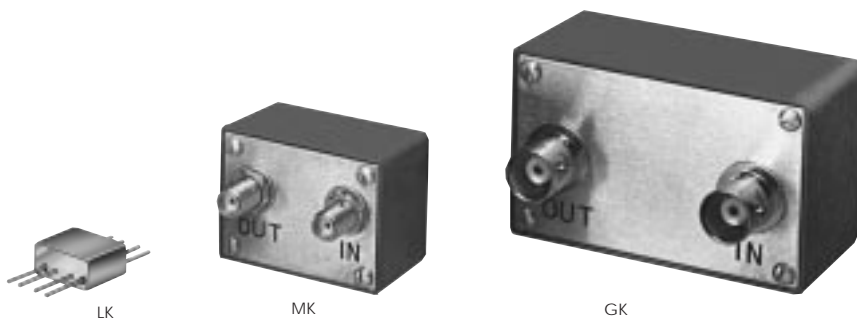
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Drop-In, Plug-In & Coaxial



MODEL NO.	FREQUENCY MHz		RF INPUT PWR dBm		CONVERSION LOSS dB			*HARMONIC OUTPUT dBc				CASE STYLE	CONNECTION	PRICE \$		
	Input	Output	Min.	Max.	Input freq.	Typ.	Max.	F1		F3					F4	
LK-3000	70-1500	140-3000	12	15	70-1000 1000-1500	10.5 11.5	14.0 16.0	31 22	20 15	40 35	25 20	15 20	10 14	BB48	dk	64.95
MK-2	5-500	10-1000	1	15	5-100 100-300 300-500	13.0 13.5 14.0	16.0 15.5 16.5	40 25 20	30 20 15	50 40 30	40 30 25	16 16 16	12 12 12	L19	-	52.95
MK-3	0.05-150	0.1-300	0	13	0.05-50 50-150	11.0 11.5	17.0 15.0	40 35	28 20	45 40	30 20	16 16	8 12	L19	-	47.95
MK-5	10-1000	20-2000	10**	20	10-600 600-1000	13.0 14.0	15.0 17.0	20 20	10 10	26 25	20 20	15 25	10 15	L19	-	76.95
GK-5	10-1000	20-2000	10**	20	10-600 600-1000	13.0 14.0	15.0 17.0	20 20	10 15	26 25	20 20	15 25	10 15	L20	-	67.95

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pin connections

see case style outline drawings for pin locations

PORT	df	dg	dh	ck	ga	gc	ln	ne
INPUT	1,2 ^	1,3,4 ^	1,3,4 ^	4	1	2	10	10
OUTPUT	4	8	8	8	8	1	5	6
GND EXT.	3	2,5,6,7	2,5,6,7	1,2,3,5,6,7	2,3,4,5,6,7	4,5,6	1,2,4,6,7,8,9	2,3,4,5,7,8,9
CASE GND	3	2,5,6,7	2	1,2,3,5,6,7	2,3,4,5,6,7	—	—	—
NOT USED	—	—	—	—	—	3	—	—
SAMPLE ⁽¹⁾	—	—	—	—	—	—	3	1
DEMO BOARD	—	—	—	—	—	—	TB-99	TB-74

^pins must be connected together externally

⁽¹⁾sample port output power, -10 dBc typ. Terminate in 50 ohms if not used.

NSN GUIDE

MCL NO.	NSN
AK-2	5895-01-131-4569
FD-2	5895-00-087-7925
FK-5	5985-01-204-9746
MK-3BR	5895-01-332-8582
RK-2	5895-01-268-7337
RK-3	5895-01-143-3726
RK-3-TX	5895-01-160-8656
RK-6	5895-01-450-3793
SK-2	6625-01-247-8425



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