

# FREQUENCY DOUBLERS 50Ω

Surface Mount □

High HARMONIC REJECTION 50 kHz to 4400 MHz

SURFACE MOUNT



KBA



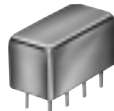
SYK



SK



AK



RK



FD




FK

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

NOTES:

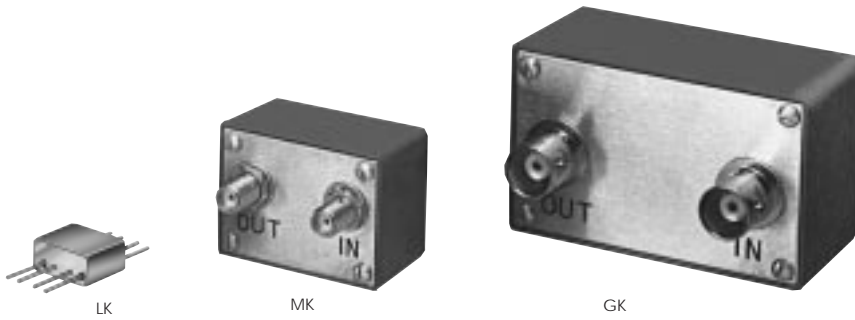
- ◆ Aqueous washable
- Non-hermetic
- \* Harmonic output below power level of F2
- \* BLUE CELL™ mixers protected by U.S. Patents 5,534,830 5,640,132 5,640,134 5,640,699
- \*\* Minimum input power +13 dBm above 700 MHz
- \*\*\* Price for quantities 10-49
- ▲ Available only with SMA connectors
- A. General 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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TECHNOLOGY

*Incorporates multi-layer monolithic ceramic substrates for moderate bandwidth and low cost RF/Microwave products*

# 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

## pin connections

see case style outline drawings for pin locations

PORT	df	dg	dh	dk	ga	gc	ln
INPUT	1,2 ^	1,3,4 ^	1,3,4 ^	4	1	2	10
OUTPUT	4	8	8	8	8	1	5
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
CASE GND	3	2,5,6,7	2	1,2,3,5,6,7	2,3,4,5,6,7	—	—
NOT USED	—	—	—	—	—	3	—
SAMPLE	—	—	—	—	—	—	3

^ pins must be connected together externally

## 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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