MONOLITHIC AMPLIFIERS 50Ω

BROADBAND DC to 8 GHz

ERA

ERA-SM

low power, up to +13.5 dBm output

all specifications at 25°C

MODEL◆ NO.	✪ FREQ. GHz f_L - f_u	GAIN, dB Typical over frequency, GHz 0.1	1	2	3	4	6	8	Min.@ 2 GHz	Flatness DC-2 GHz	MAXIMUM POWER (dBm) at 2 GHz* Output (1 dB Comp.) Typ.	Min.	Input (no dmg)	DYNAMIC RANGE at 2 GHz* NF (dB) Typ.	IP3 (dBm) Typ.	VSWR (:1) Typ. In DC-3 GHz	In 3-f_u** GHz	Out DC-3 GHz	Out 3-f_u** GHz	ABSOLUTE MAX. RATING[3] I (mA)	P (mW)	DC OPERATING POWER[4] at Pin 3 Current (mA)	Volt. Typ	Min	Max	THERMAL RESISTANCE θjc Typ. °C/W	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (30)
ERA-1	DC-8	12.3	12.1	11.8	10.9	9.7	7.9	8.2	9	±0.3	12.0	10.0	15	4.3	26	1.5	1.8	1.5	1.9	75	330	40	3.4	3.0	4.1	178	VV105	cb	1.37
ERA-2	DC-6	16.2	15.8	15.2	14.4	13.1	11.2	—	13	±0.5	13.0	11.0	15	4.0	26	1.3	1.4	1.2	1.6	75	330	40	3.4	3.0	4.1	155	VV105	cb	1.52
ERA-3	DC-3	22.1	21.0	18.7	16.8	—	—	—	16	±1.7	12.5	9	13	3.5	25	1.5	—	1.4	—	75	330	35	3.2	3.0	4.1	154	VV105	cb	1.67
ERA-1SM	DC-8	12.3	12.1	11.8	10.9	9.7	7.9	8.2	9	±0.3	12.0	10.0	15	4.3	26	1.5	1.8	1.5	1.9	75	330	40	3.4	3.0	4.1	183	WW107	cb	1.42
NEW ERA-21SM	DC-8	14.2	13.9	13.2	12.2	10.8	8.7	8.9	11.2	±0.5	12.6	10.6	15	4.7	26	1.1	1.4	1.3	1.9	75	330	40	3.5	3.0	4.1	194	WW107	cb	1.57
ERA-2SM	DC-6	16.2	15.8	15.2	14.4	13.1	11.2	—	13	±0.5	13.0	11.0	15	4.0	26	1.3	1.4	1.2	1.6	75	330	40	3.4	3.0	4.1	160	WW107	cb	1.57
NEW ERA-33SM	DC-3	19.3	18.7	17.4	15.9	—	—	—	15	±0.9	13.5	11.5	13	3.9	28.5	1.6	—	1.25	—	75	330	40	4.3	3.8	4.8	140	WW107	cb	1.72
ERA-3SM	DC-3	22.1	21.0	18.7	16.8	—	—	—	16	±1.7	12.5	9	13	3.5	25	1.5	—	1.4	—	75	330	35	3.2	3.0	4.1	159	WW107	cb	1.72

features

- low thermal resistance
- miniature microwave amplifier
- available in drop-in & surface mount (sm) versions
- frequency range, DC to 8 GHz, usable to 10 GHz
- up to 18.5 dBm typ. (16.5 dBm min) output power

absolute maximum ratings

operating temperature: -45°C to 85°C
storage temperature: -65° to 150°C

model identification

Model	marking (see note below)
ERA-1, ERA-1SM	1
ERA-2, ERA-2SM	2
ERA-21SM	21
ERA-3, ERA-3SM	3
ERA-33SM	33
ERA-4, ERA-4SM	4
ERA-5, ERA-5SM	5
ERA-50SM	50
ERA-51SM	51
ERA-6, ERA-6SM	6

Note: Prefix letter (optional) designates assembly location. Suffix letters (optional) are for wafer identification.

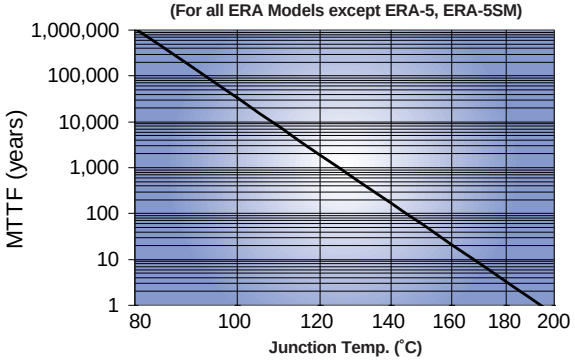
— — —

prefix letter
number
suffix letter

NOTES:

◆ Aqueous washable
* at 1 GHz for ERA-4,5,6, 4SM, 5SM, 50SM, 51SM, 6SM
** f_u is the upper frequency limit for each model as shown in the table.
*** Gain, gain flatness, and VSWR are specified at 1.5 GHz.
✪ Low frequency cutoff determined by external coupling capacitors.
A. Environmental specifications and re-flow soldering information available in General Information Section.
B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see "Case Styles & Outline Drawings".
C. Prices and Specifications subject to change without notice.
D. For Quality Control Procedures see Table of Contents, Section 0, "Mini-Circuits Guarantees Quality" article. For Environmental Specifications see Amplifier Selection Guide.
1. Model number designated by alphanumeric code marking.
2. ERA-SM models available on tape and reel.
3. Permanent damage may occur if any of these limits are exceeded. These ratings are not intended for continuous normal operation.
4. Reliability predictions and normal operating conditions are applicable at current specified.

MTTF vs. Junction Temp.
(For all ERA Models except ERA-5, ERA-5SM)



REV. G
M77341
ERA-SERIES
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010621

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ERA

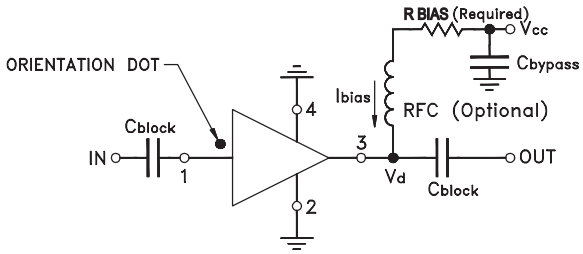
ERA-SM

medium power, up to +18.4 dBm output

all specifications at 25°C

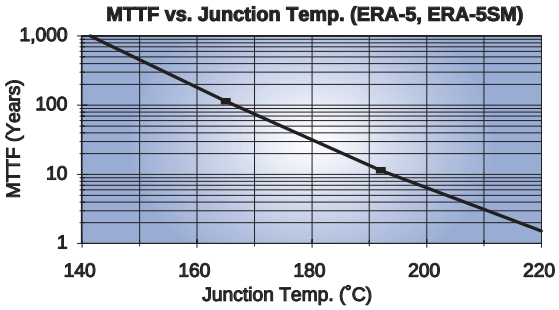
MODEL◆ NO.	✪ FREQ. GHz f_L - f_U	GAIN, dB Typical over frequency, GHz 0.1	1	2	3	4	6	8	Min.@ 2 GHz	Flatness DC-2 GHz	MAXIMUM POWER (dBm) at 2 GHz* Output (1 dB Comp.) Typ.	Min.	Input (no dmg)	DYNAMIC RANGE at 2 GHz* NF (dB) Typ.	IP3 (dBm) Typ.	VSWR (:1) Typ. In DC-3 GHz	In 3-f_u** GHz	Out DC-3 GHz	Out 3-f_u** GHz	ABSO-LUTE MAX. RATING[3] I (mA)	P (mW)	DC OPERATING POWER[4] at Pin 3 Current (mA)	Volt. Typ	Min	Max	THERMAL RESIS-TANCE θjc Typ. °C/W	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (30)
ERA-6	DC-4	12.6	12.5	12.2	11.7	11.3	—	—	10.5	±0.2	17.9	16	20	4.5	36	1.3	1.2	1.6	1.8	120	650	70	5.0	4.6	5.6	170	VV105	cb	3.85
ERA-4	DC-4	14.3	14.0	13.4	12.7	11.8	—	—	11	±0.4	17.3	15	20	4.2	34	1.2	1.2	1.3	1.8	120	650	65	4.5	4.2	5.5	163	VV105	cb	3.85
ERA-5	DC-4	20.2	19.5	18.5	17.3	16.2	—	—	16	±1.0	18.4	16.5	13	4.3	32.5	1.3	1.3	1.2	1.3	120	650	65	4.9	4.2	5.5	278	VV105	cb	3.85
ERA-6SM	DC-4	12.6	12.5	12.2	11.7	11.3	—	—	10.5	±0.2	17.9	16	20	4.5	36	1.3	1.2	1.6	1.8	120	650	70	5.0	4.6	5.6	175	WW107	cb	3.90
ERA-4SM	DC-4	14.3	14.0	13.4	12.7	11.8	—	—	11	±0.4	17.3	15	20	4.2	34	1.2	1.2	1.3	1.8	120	650	65	4.5	4.2	5.5	168	WW107	cb	3.90
NEW ERA-51SM	DC-4	18.0	17.4	16.1	14.8	12.5	—	—	14	±1.0	18.1	16.5	13	4.1	33	1.1	1.2	1.2	1.9	120	650	65	4.5	4.2	5.5	154	WW107	cb	3.90
ERA-5SM	DC-4	20.2	19.5	18.5	17.3	16.2	—	—	16	±1.0	18.4	16.5	13	4.3	32.5	1.3	1.3	1.2	1.3	120	650	65	4.9	4.2	5.5	283	WW107	cb	3.90
NEW ERA-50SM***	DC-1.5	20.7	19.4	18.3	—	—	—	—	16	±1.2	17.2	16.0	13	3.5	32.5	1.3	—	1.2	—	120	650	60	4.4	4.0	4.9	177	WW107	cb	2.95

typical biasing configuration



R BIAS
"1%" Resistor Values (ohms) for Optimum Biasing of ERA Models

Vcc	ERA-1, 1SM	ERA-2, 2SM	ERA-21SM	ERA-3, 3SM	ERA-33SM	ERA-4, 4SM	ERA-5, 5SM	ERA-50SM, 51SM	ERA-6, 6SM
7	90.9	88.7	88.7	107	69.8	38.3	40.2	40.2	30.1
8	113	113	113	133	93.1	52.3	53.6	53.6	43.2
9	137	137	137	162	115	66.5	68.1	68.1	56.2
10	162	162	162	191	140	80.6	82.5	82.5	69.8
11	187	187	187	221	165	95.3	97.6	97.6	84.5
12	215	215	210	249	191	110	113	113	97.6
13	237	237	237	280	215	127	127	127	113
14	261	261	261	309	243	143	143	143	127
15	287	287	287	340	267	158	158	158	140
16	309	316	316	365	287	174	174	174	154
17	332	340	340	392	316	187	191	191	169
18	357	365	365	422	340	205	205	205	182
19	383	392	392	453	365	221	221	221	196
20	412	412	412	475	392	237	237	237	210



designers kits available

KIT NO.	Model Type	No. of Units in Kit	Description	Price $ per kit
K1-ERA	ERA	30	10 of each 1,2,3	49.95
K2-ERA	ERA	20	10 of each 4,5	69.95
K1-ERASM	ERA-SM	30	10 of each 1SM, 2SM,3SM	49.95
K2-ERASM	ERA-SM	20	10 of each 4SM, 5SM	69.95
K3-ERASM	ERA-SM	30	10 of each 4SM, 5SM, 6SM	99.95

pin connections

PORT	cb
RF IN	1
RF OUT	3
DC	3
CASE GND	2,4
NOT USED	—

NSN GUIDE

MCL NO.	NSN
ERA-1SM	5962-01-459-9075
ERA-2SM	5962-01-459-7410
ERA-3SM	5962-01-459-9314

The Design Engineers Search Engine
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Available Tape & Reel

VOLTAGE CONTROLLED OSCILLATORS

Click package to view outline drawing

165S

SURFACE-MOUNT PACKAGE

FREQUENCY RANGE (MHz)	NOMINAL TUNING VOLTAGE (Volts)	DC BIAS REQUIREMENTS VOLTAGE (Volts)	DC BIAS REQUIREMENTS CURRENT (mA)	OUTPUT POWER dBm	OUTPUT POWER Tolerance (dB)	AVERAGE TUNING SENSITIVITY MHz/Volt	TYPICAL PHASE NOISE dBc/Hz Offset at 10 KHz/100 KHz	TYPICAL HARMONIC SUPPRESSION (dBc)	PUSHING (MHz/Volt) (Typ)	PULLING (@ 1.75:1 VSWR) MHz (Typ)	MODEL
180 - 260	0 - 10	+12	<30	+7.5	+2	8 - 15	-95/-120	10	1	15	**VFC180SA**
200 - 400	0 - 17	+12	<35	+14	+2.5	10 - 20	-90/-115	10	5	15	**VFC-S-200**
210 - 270	1 - 12	+5.0	<35	0	+2	5 - 6	-90/-115	10	5	15	**VFC210SA**
219 - 256	1 - 4.5	+5	<20	0	+2	12 - 20	-100/-120	10	5	5	**VFC219SA**
250 - 500	0 - 22	+12	<35	+12	+2.5	10 - 20	-95/-115	10	5	15	**VFC-S-250**
400 - 800	0 - 15	+12	<35	+12	+2.5	20 - 30	-95/-115	10	5	15	**VFC-S-400**
425 - 500	1 - 12	+12	<35	+10	+3	5 - 10	-95/-120	10	5	15	**VFC-S-A05**
490 - 560	0 - 4.5	+8	<20	0	+2	17 - 25	-100/-125	10	1	2	**VFC490SA**
500 - 1000	0.5 - 25	+12	<35	+14	+2.5	25 - 50	-95/-120	10	1	15	**VFC-S-500**
600 - 1200	0.5 - 25	+12	<35	+15	+3	25 - 45	-95/-115	10	1	15	**VFC-S-600**
700 - 1400	0.5 - 25	+12	<35	+15	+3	35 - 60	-95/-120	10	5	15	**VFC-S-700**
800 - 1600	0 - 25	+12	<35	+14	+3.5	40 - 60	-95/-120	10	5	15	**VFC-S-800**
900 - 1200	2.5 - 10.5	+12	<35	+6	+1.5	40 - 60	-95/-120	10	5	15	**VFC900SB**
900 - 1735	0 - 18	+15	<45	+13	+1.5	40 - 60	-95/-120	10	5	16	**VFC900SA**
900 - 1800	0.5 - 20	+12	<35	+11	+3	40 - 60	-95/-120	10	5	15	**VFC-S-900**
920 - 1455	0 - 12	+12	<35	+13	+3	45 - 60	-95/-120	10	5	15	**VFC920SA**
936 - 1636	0 - 20	+12	<35	+10	+3	20 - 50	-90/-115	10	5	15	**VFC 936SA**
1000 - 2000	0.5 - 22	+12	<35	+13	+3	40 - 60	-95/-120	10	5	15	**VFC-S-1000**
1200 - 1600	2.5 - 11	+12	<35	+6	+1.5	50 - 70	-95/-120	10	5	15	**VFC1200SA**
1225 - 2375	0 - 25	+11	<35	+12	+4	50 - 70	-95/-120	10	2	30	**VFC1225SA**
1300 - 2300	0 - 24	+15	<40	+12	+3	40 - 60	-90/-110	10	1	15	**VFC1300SA**
1305 - 1512	2 - 10	+12	<30	+10	+1	20 - 40	-95/-120	20	5	15	**VFC-S-A07**
1355 - 1595	2 - 10	+12	<30	+10	+1	25 - 45	-95/-115	10	1	15	**VFC-S-A06**
1500 - 2100	1 - 12	+12	<35	+6	+2.5	40 - 60	-92/-112	10	5	15	**VFC-S-A02**
1850 - 1950	0.5 - 6.5	+8	<40	+8	+2	20 - 30	-95/-122	12	3.5	15	**VFC1850SA**
2300 - 2450	0.5 - 7	+8	<35	+8	+2	25 - 35	-95/-120	12	3.5	20	**VFC2300SA**
2355 - 2528	0.5 - 4.5	+12	<35	+5	+3	50 - 60	-90/-115	10	5	10	**VFC2355SA**
2530 - 2730	1 - 9	+12	<35	+10	+2	30 - 45	-90/-120	20	5	15	**VFC2530SA**

COMMON SPECIFICATIONS

Output Impedance: 50 ohms
VSWR: 1.5:1 (Typ)
Specifications are at +25°C

Operating Temperature: -30°C to +70°C
Contact the factory for more stringent operating temperature range

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

SYNERGY® MICROWAVE CORPORATION
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VOLTAGE CONTROLLED OSCILLATORS

PLUG-IN PACKAGE

165

FREQUENCY RANGE (MHz)	NOMINAL TUNING VOLTAGE (Volts)	DC BIAS REQUIREMENTS VOLTAGE (Volts)	DC BIAS REQUIREMENTS CURRENT (mA)	OUTPUT POWER dBm	OUTPUT POWER Tolerance (dB)	AVERAGE TUNING SENSITIVITY MHz/Volt	TYPICAL PHASE NOISE dBc/Hz Offset at 10 KHz/100 KHz	TYPICAL HARMONIC SUPPRESSION (dBc)	PUSHING (MHz/Volt) (Typ)	PULLING (@ 1.75:1 VSWR) MHz (Typ)	MODEL
200 - 400	0 - 17	+12	<35	+14	+2.5	10 - 20	-90/-115	10	5	15	**VFC-P-200**
250 - 500	0 - 22	+12	<35	+12	+2.5	10 - 20	-95/-115	10	5	15	**VFC-P-250**
400 - 800	0.5 - 15	+12	<35	+15	+2.5	20 - 30	-95/-115	10	1	15	**VFC-P-400**
500 - 1000	0.5 - 25	+12	<35	+14	+2.5	25 - 50	-95/-120	10	1	15	**VFC-P-500**
600 - 1200	0.5 - 25	+12	<35	+15	+3	25 - 45	-95/-115	10	1	15	**VFC-P-600**
700 - 1400	0.5 - 25	+12	<35	+15	+3	35 - 60	-95/-120	10	5	15	**VFC-P-700**
800 - 1600	0 - 25	+5	<35	+10	+3	40 - 60	-95/-120	10	1	15	**VFC-P-800**
900 - 1800	0.5 - 20	+12	<35	+11	+3	40 - 60	-95/-120	10	5	15	**VFC-P-900**
1000 - 2000	0.5 - 22	+12	<35	+11	+3	40 - 60	-95/-120	10	5	15	**VFC-P-1000**
1630 - 1930	2 - 22	+10	<50	+10	+2	15 - 30	-95/-115	10	5	15	**VFC-P-A02**

COMMON SPECIFICATIONS

Output Impedance: 50 ohms
VSWR: 1.5:1 (Typ)
Specifications are at +25°C

Operating Temperature: -30°C to +70°C
Contact the factory for more stringent operating temperature range

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

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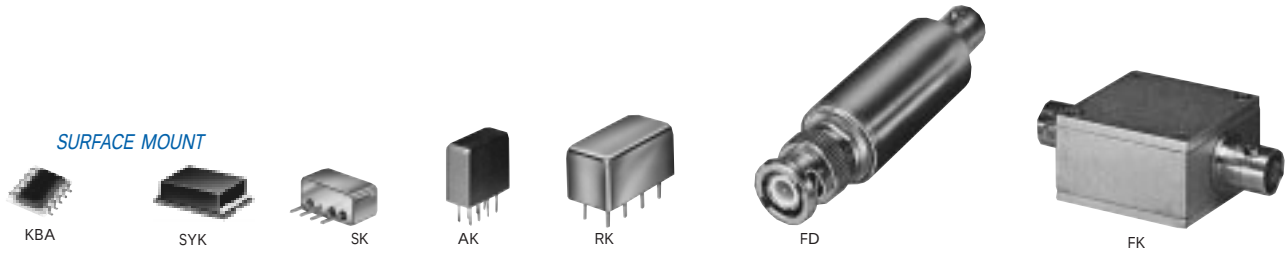
FREQUENCY DOUBLERS 50Ω

Surface Mount ❑

HIGH HARMONIC REJECTION 50 kHz to 9600 MHz

SURFACE MOUNT



MODEL NO.	FREQUENCY MHz Input	FREQUENCY MHz Output	RF INPUT PWR dBm Min.	RF INPUT PWR dBm Max.	CONVERSION LOSS dB Input freq.	CONVERSION LOSS dB Typ.	CONVERSION LOSS dB Max.	❇HARMONIC OUTPUT dBc F1 Typ.	F1 Min.	F3 Typ.	F3 Min.	F4 Typ.	F4 Min.	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (1-9)
◆ KBA-20*	1600-2200	3200-4400	11	15	1600-2200	12	15.8	12	7	20	13	23	10	SM2	ln	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			

BLUE CELL

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.

BLUE CELL™

020614

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LK

MK

GK

MODEL NO.	FREQUENCY MHz		RF INPUT PWR dBm		CONVERSION LOSS dB			❈HARMONIC OUTPUT dBc						CASE STYLE	CONNECTION	PRICE $
								F1		F3		F4				
	Input	Output	Min.	Max.	Input freq.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Note B		Qty. (1-9)
LK-3000	70-1500	140-3000	12	15	70-1000	10.5	14.0	31	20	40	25	15	10	BB48	dk	64.95
					1000-1500	11.5	16.0	22	15	35	20	20	14			
MK-2	5-500	10-1000	1	15	5-100	13.0	16.0	40	30	50	40	16	12	L19	-	52.95
					100-300	13.5	15.5	25	20	40	30	16	12			
					300-500	14.0	16.5	20	15	30	25	16	12			
MK-3	0.05-150	0.1-300	0	13	0.05-50	11.0	17.0	40	28	45	30	16	8	L19	-	47.95
					50-150	11.5	15.0	35	20	40	20	16	12			
MK-5	10-1000	20-2000	10**	20	10-600	13.0	15.0	20	10	26	20	15	10	L19	-	76.95
					600-1000	14.0	17.0	20	10	25	20	25	15			
GK-5	10-1000	20-2000	10**	20	10-600	13.0	15.0	20	10	26	20	15	10	L20	-	67.95
					600-1000	14.0	17.0	20	15	25	20	25	15			

pin connections

see case style outline drawings for pin locations

PORT	df	dg	dh	dk	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

^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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