

X3 Frequency Multiplier

50Ω Output 4800 to 6600 MHz

RMK-3-662+



CASE STYLE: TT1224
PRICE: \$7.95 ea. QTY (10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	17 dBm

Pin Connections

INPUT	1
OUTPUT	4
GROUND	2,3,5,6

Features

- broadband
- low conversion loss, 15.0 dB typ.
- high rejection F2, 45 dBc typ.; F4, 38 dBc typ.
- low cost
- aqueous washable

Applications

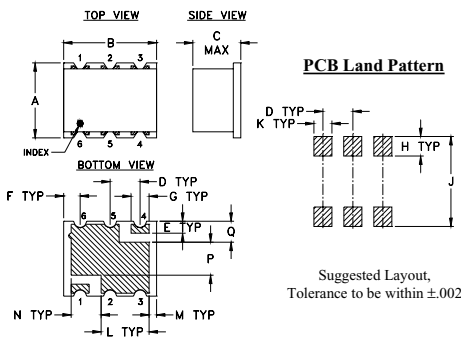
- synthesizers
- local oscillators
- satellite up and down converters

Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1 Input	F3 Output	Min.	Max.	Typ.	Max.	F1		F2		F4	
3	1600-2200	4800-6600	9	13	15	19.5	6	-4	45	20	38	21

* Harmonics of input frequency below the power level of F3

Outline Drawing

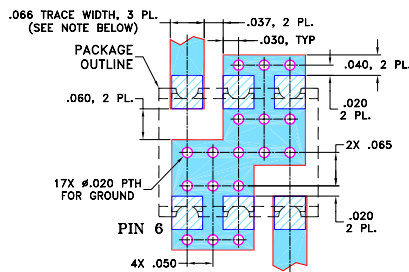


Outline Dimensions (inch)

A	B	C	D	E	F	G	H
.25	.31	.16	.100	.040	.055	.060	.065
6.35	7.87	4.06	2.54	1.02	1.40	1.52	1.65

J	K	L	M	N	P	Q	wt.
.300	.060	.160	.250	.100	.110	.070	grams
7.62	1.52	4.06	6.35	2.54	2.79	1.78	0.16

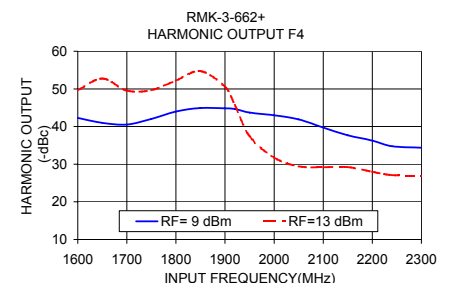
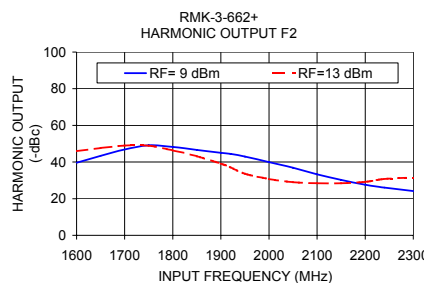
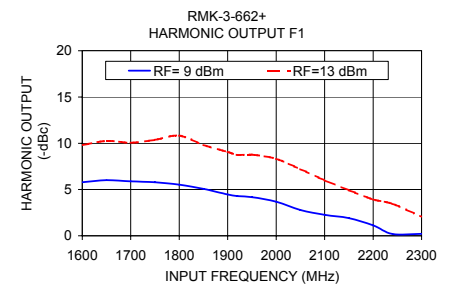
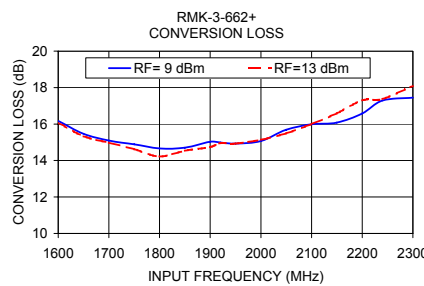
Demo Board MCL P/N: TB-393 Suggested PCB Layout (PL-258)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Typical Performance Data

Input Frequency (MHz)	INPUT RF= 9 dBm				INPUT RF= 13 dBm			
	Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)			Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)		
		F1	F2	F4		F1	F2	F4
1600.00	16.17	5.79	39.64	42.32	16.07	9.81	45.92	49.63
1650.00	15.46	6.01	43.37	40.97	15.33	10.25	47.62	52.77
1700.00	15.10	5.89	46.84	40.55	14.98	10.06	48.95	49.53
1750.00	14.89	5.78	49.17	42.02	14.62	10.36	48.86	49.65
1800.00	14.66	5.53	48.23	43.98	14.22	10.83	46.31	52.18
1850.00	14.70	5.07	46.62	44.93	14.54	9.81	43.11	54.74
1900.00	15.03	4.47	45.05	44.85	14.74	9.07	39.08	50.55
1920.00	14.99	4.28	44.45	44.68	14.95	8.74	37.10	45.73
1950.00	14.93	4.17	42.99	43.71	14.93	8.77	33.59	37.40
2000.00	15.07	3.68	39.94	43.00	15.14	8.31	30.77	31.77
2050.00	15.69	2.78	36.93	41.91	15.49	7.21	29.04	29.44
2100.00	15.99	2.26	33.31	39.71	16.00	6.00	28.43	29.20
2150.00	16.08	1.90	30.27	37.69	16.59	4.93	28.42	29.24
2200.00	16.58	1.13	27.59	36.27	17.30	3.93	29.15	27.99
2240.00	17.29	0.20	26.08	34.76	17.37	3.46	30.73	27.09
2300.00	17.45	0.22	24.12	34.37	18.09	2.05	31.53	26.89



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



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RF/IF MICROWAVE COMPONENTS

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DJ/CP/AM
071004