

50Ω Output 4800 to 6600 MHz

+RoHS Compliant

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	17 dBm

Permanent damage may occur if any of these limits are exceeded.

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

TOP VIEW

SIDE VIEW

PCB Land Pattern

BOTTOM VIEW

**Suggested Layout,
Tolerance to be within ± 0.02**

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	.025	.100	.110	.070	grams
7.62	1.52	4.06	0.64	2.54	2.79	1.78	0.16

Figure 1: Dimensions of the package outline. The diagram shows a rectangular package with various dimensions and features. Key dimensions include: .066 TRACE WIDTH, 3 PL. (SEE NOTE BELOW); .037, 2 PL.; .030, TYP.; .040, 2 PL.; .020, 2 PL.; 2X .065; .020, 2 PL.; 4X .050; 17X #.020 PTH FOR GROUND; PIN 6; .060, 2 PL.; and .066 TRACE WIDTH, 3 PL. (SEE NOTE BELOW). The package outline is shown in blue, and the dimensions are indicated by dashed lines and arrows.

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" $\pm$.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

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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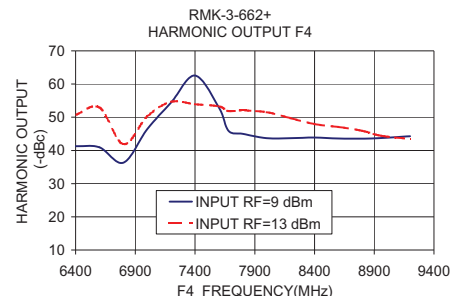
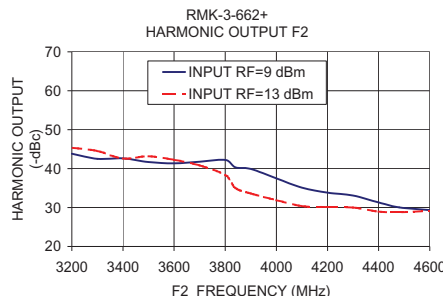
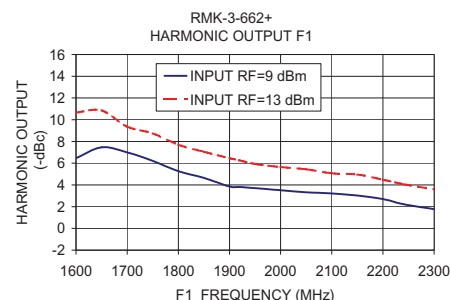
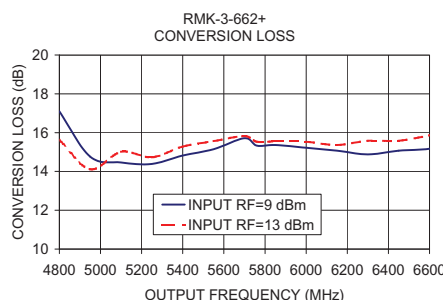
- broadband
- low conversion loss, 15.0 dB typ.
- high rejection F2, 45 dBc typ.; F4, 38 dBc typ.
- low cost
- aqueous washable

- synthesizers
- local oscillators
- satellite up and down converters

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)	CONVERSION LOSS (dB)	*HARMONIC OUTPUT (dBc)			
	F1	F3			F1	F2	F4	
	Input	Output	Min.	Max.	Typ.	Min.	Typ.	Min.
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

INPUT RF= 9 dBm					INPUT RF= 13 dBm			
Input Frequency (MHz)	Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)			Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)		
	F3	F1	F2	F4		F3	F1	F2
1600.00	16.17	5.79	39.64	42.32	16.07	9.80	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



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