

50Ω Output 7800 to 15000 MHz

PRICE: \$12.95 ea. QTY (10-49)

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

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 drawing 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.; .060, 2 PL.; .020, 2 PL.; 2X .065; 17X .020 PTH FOR GROUND; PIN 6; .020, 2 PL.; 4X .050. The drawing also indicates the PACKAGE OUTLINE and shows a grid of 17x20 plated through holes (PTH) for ground.

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" $\pm$.002"; COPPER: 1/2 OZ. EACH SIDE.
2. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
3. 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

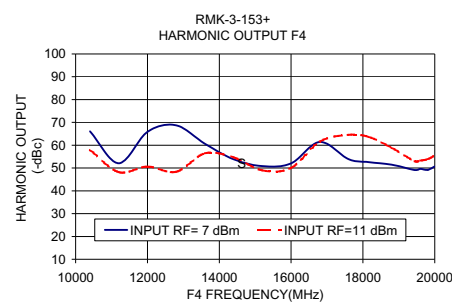
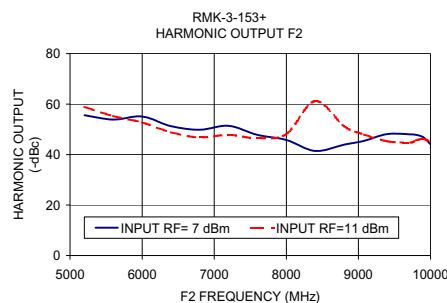
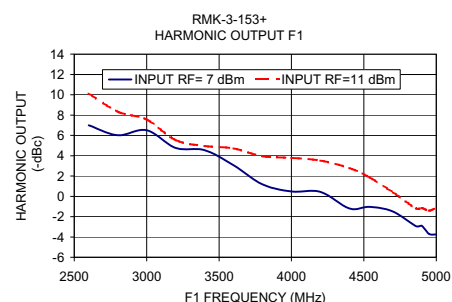
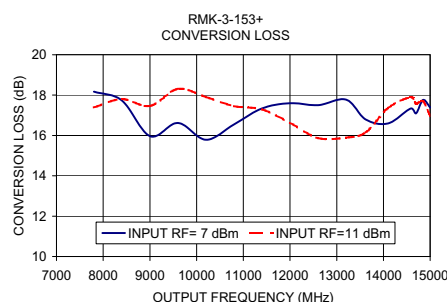
- broadband
- high rejection F2, -48 dBc typ.; F4, -50 dBc typ.
- low cost
- aqueous washable

- 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.	Max.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.		
3	2600-5000	7800-15000	7	11	17	21	1	-9	48	33	50	35

* Harmonics of input frequency below the power level of F3

INPUT RF= 7 dBm					INPUT RF= 11 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	F4
2600.00	18.17	6.99	55.60	66.09	17.39	10.13	58.87	57.99
2800.00	17.74	6.02	53.85	52.11	17.80	8.34	55.27	48.19
3000.00	15.97	6.51	55.08	65.88	17.46	7.57	52.69	50.64
3200.00	16.62	4.76	51.26	68.74	18.31	5.54	48.84	48.36
3400.00	15.79	4.54	49.83	60.60	17.91	4.96	46.76	56.47
3600.00	16.55	3.06	51.39	53.84	17.45	4.72	47.79	54.67
3800.00	17.34	1.18	47.80	50.82	17.29	3.95	46.49	48.95
4000.00	17.60	0.48	45.77	52.01	16.63	3.79	48.15	50.03
4200.00	17.50	0.43	41.45	61.42	15.87	3.52	61.17	61.58
4400.00	17.78	-1.20	43.95	53.89	15.89	2.79	51.23	64.56
4540.00	16.79	-1.04	45.45	52.58	16.15	1.86	47.94	63.62
4700.00	16.60	-1.50	48.14	51.47	17.36	0.40	45.25	58.86
4860.00	17.33	-2.94	47.98	49.14	17.89	-1.19	44.75	52.98
4900.00	17.10	-2.90	47.84	49.63	17.58	-1.14	45.62	53.29
4950.00	17.76	-3.69	46.83	49.18	17.70	-1.42	46.22	53.79
5000.00	17.39	-3.75	44.06	50.72	16.96	-1.13	45.13	55.56



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