



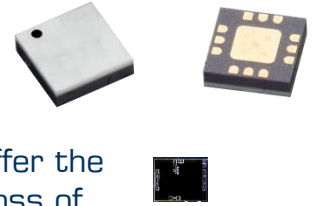
New Marki T3 MMICs Dominate Dynamic Range



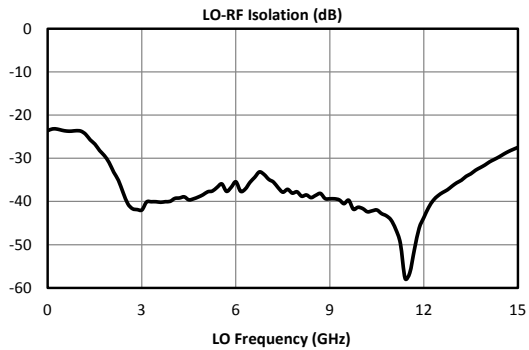
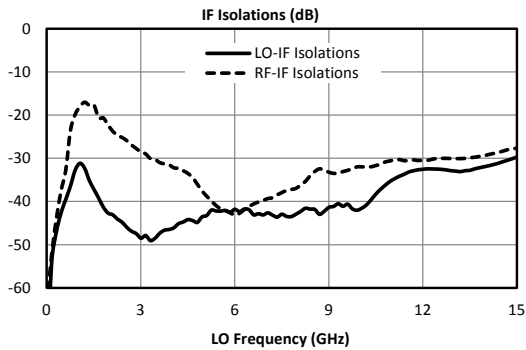
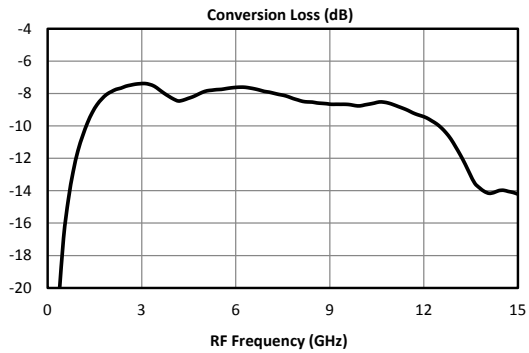
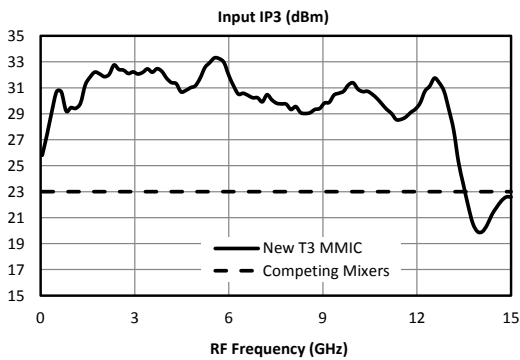
The Two Tone Terminator mixer has been the world's highest dynamic range mixer across the broadest bandwidth since being introduced in 2006. Since 2013 Marki Microwave has offered small form factor chip style double balanced mixers such as

the Microlithic® and MMIC lines of mixers that cover from 1 GHz to 67 GHz. Now Marki is proud to introduce the new MT3 line

of small form factor, high linearity mixers. These integrated mixers offer the high linearity (IP3, P1dB, spurious suppression) and low conversion loss of the T3, but with the size and production scaling benefits of a MMIC.



Chip samples are now available, production volumes will be available in Q3 of 2016.



For a complementary analysis of your frequency plan and the best mixer for your application, contact support@markimicrowave.com.

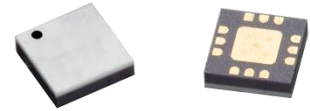
For samples and demo information, contact your local sales representative.



New Marki MMICs Crush Spurs, Competition

Marki Microwave MMICs can dramatically expand the dynamic range of your receiver or synthesizer. How do we do it?

- ❖ A proven simulation-fabrication design loop that ensures first pass success, even for very high isolation and suppression levels
- ❖ Obsessive simulation of dozens of passive circuit topologies through hundreds of minute variations to arrive at the very best balance possible



Comparison of Leading Competitor to (MM1-0626H)

-10 dBm RF Input	1xLO	2xLO	3xLO	4xLO
1xRF	Reference	21 (31)	13 (12)	20 (34)
2xRF	56 (71)	64 (72)	69 (69)	67 (78)
3xRF	64 (64)	78 (82)	77 (76)	76 (82)

- ❖ **New** double junction *superhigh* level diodes (S-diodes) for higher LO power means more P1dB, more IP3, and better spurious suppression
- ❖ **New** triple balanced circuit architecture integrated onto a MMIC offers both overlapping bands and improved spur suppression
- ❖ **New** T3 mixer architecture improves with square wave, higher LO drive

New Model	RF [GHz]	LO [GHz]	IF [GHz]	Special Function
MM1-0310S	3 to 10	3 to 10	DC to 4	Superhigh Barrier Diode
MM1-0424S	4.5 to 24	4.5 to 24	DC to 4	Superhigh Barrier Diode
MM1-0626S	6 to 26	6 to 26	DC to 9	Superhigh Barrier Diode
MM1-1240S	12 to 40	12 to 40	DC to 12	Superhigh Barrier Diode
MM1-1850S	18 to 50	18 to 50	DC to 21	Superhigh Barrier Diode
MT3-0113	1 to 13	1 to 13	0.5 to 6	T3 with Integrated IF Balun
MT3-0113	1 to 13	1 to 13	.01 to 6	T3 with Off-Chip IF Balun
MM2-0530	5 to 30	5 to 30	2 to 20	Triple Balanced MMIC

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