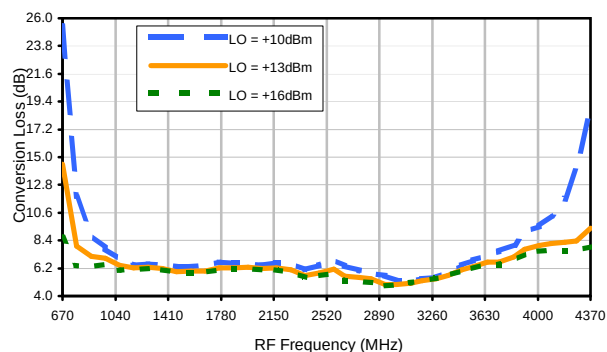


Frequency Mixer

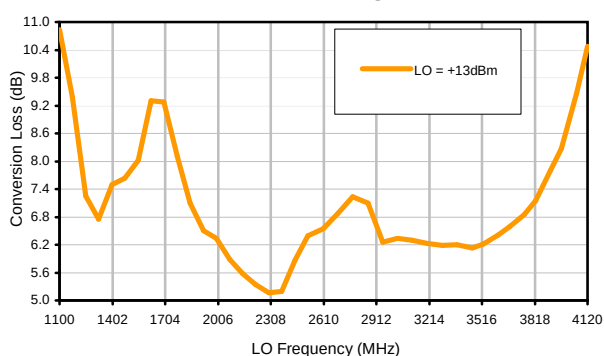
ZX05-43MH+

Typical Performance Curves

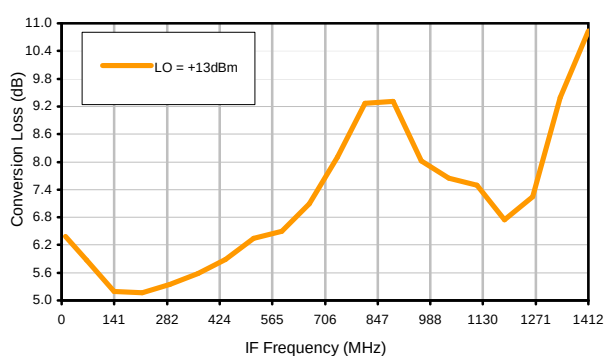
Conversion Loss @ IF=30MHz



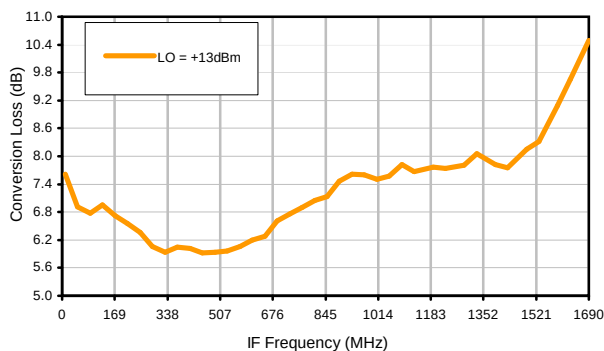
Conversion Loss vs. LO @ RF=2512MHz



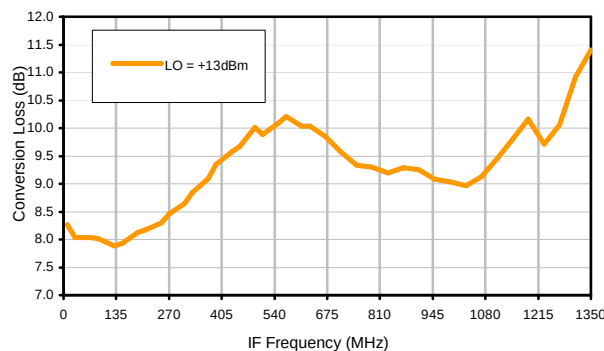
Conversion Loss vs. IF @ RF=2512MHz



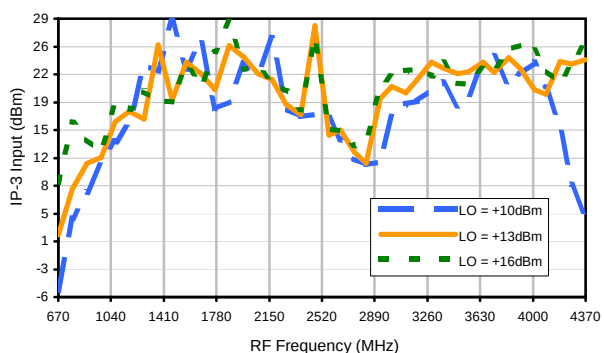
Conversion Loss vs. IF @ RF=813.9MHz



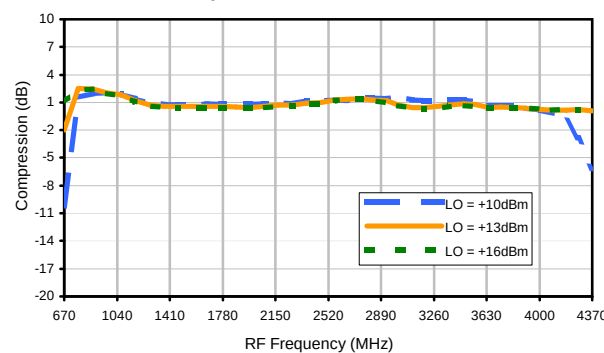
Conversion Loss vs. IF @ RF=4210.1001MHz



IP3 Input



Compression @ RF IN=+9dBm



REV. X2
ZX05-43MH+
101011
Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0066 (718) 934-4500 Fax (718) 332-4661

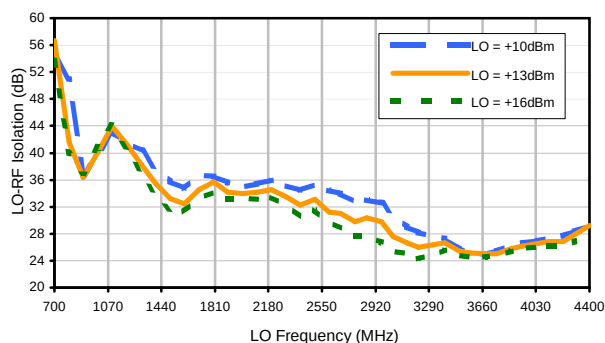


The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see

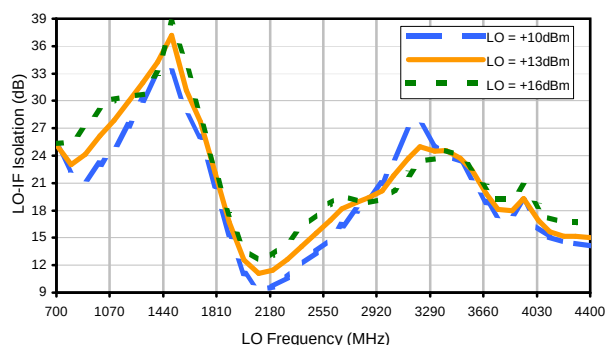


Typical Performance Curves

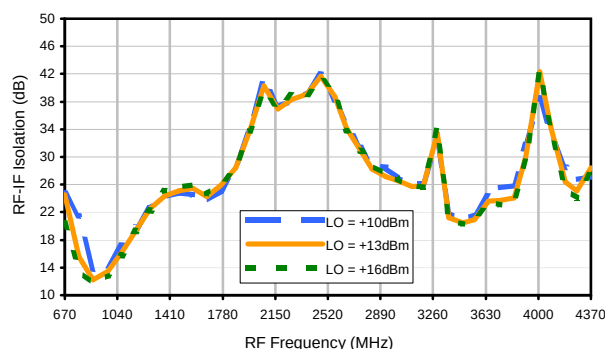
LO-RF Isolation



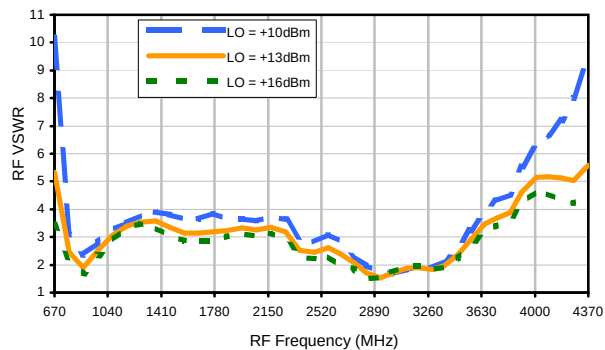
LO-IF Isolation



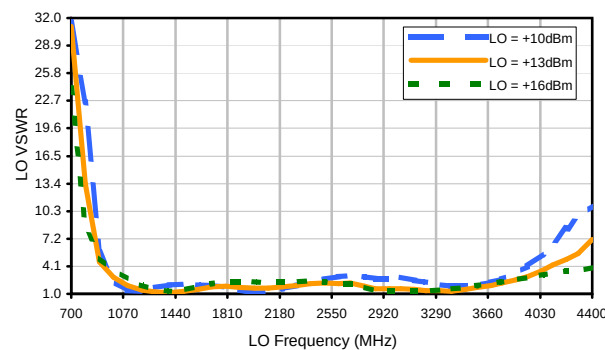
RF-IF Isolation



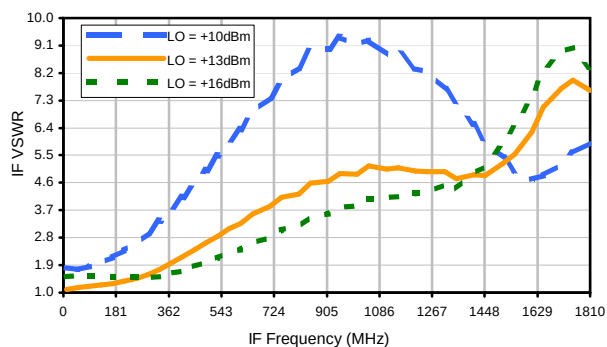
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+9	9	13	21	38	47	41	43	34	---
1	-	36	+0	40	19	30	36	61	39	66	52	61
2	73	53	51	54	48	66	53	62	75	70	74	73
3	>90	63	60	>78	61	>78	66	73	69	>78	71	>78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	---	---	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2512 MHz; -6.00 dBm.
LO IN: 2542 MHz; +13.00 dBm
IF OUT: 30 MHz; -12.41 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	20	25	34	49	53	53	57	48	---
1	-	35	+0	43	19	34	38	68	44	72	59	63
2	53	45	43	57	39	60	45	52	65	65	69	68
3	86	41	37	58	37	58	46	46	50	75	53	76
4	>90	68	67	59	57	54	56	64	57	71	78	71
5	>90	74	60	63	56	74	54	81	63	65	65	>88
6	>90	>88	>88	80	76	73	74	65	71	75	69	79
7	>90	>88	>88	>88	80	83	71	84	63	>88	74	75
8	>90	>88	>88	>88	>88	88	>88	84	>88	74	76	>88
9	>90	>88	>88	>88	>88	>88	>88	>88	86	>88	80	>88
10	---	---	>88	>88	>88	>88	>88	>88	>88	>88	>88	82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2512 MHz; 4.00 dBm.
LO IN: 2542 MHz; +13.00 dBm
IF OUT: 30 MHz; -2.39 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.