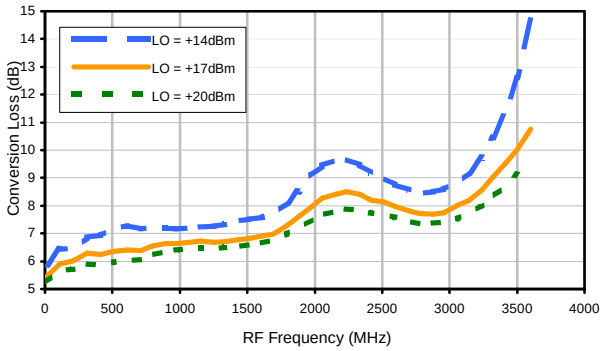
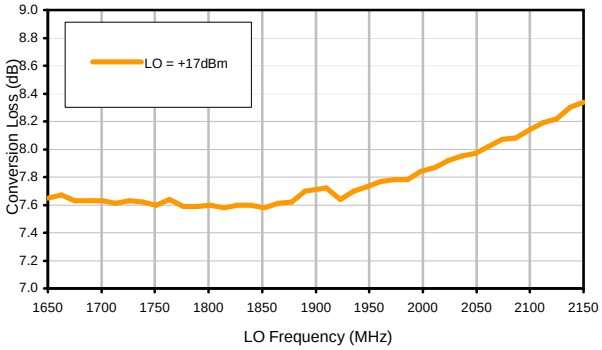
Frequency Mixer SYM-24DH+

Typical Performance Curves

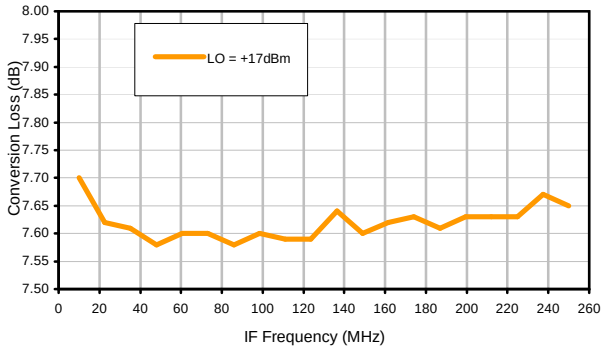
Conversion Loss @ IF=30MHz



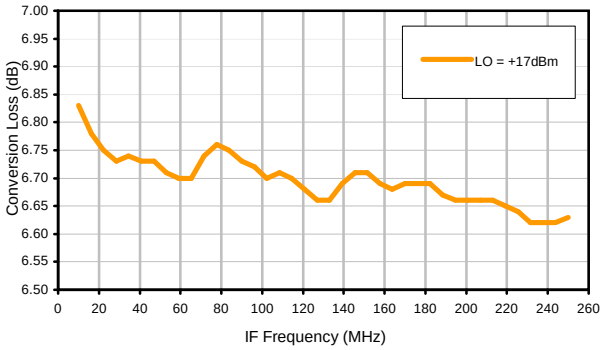
Conversion Loss vs. LO @ RF=1900.1MHz



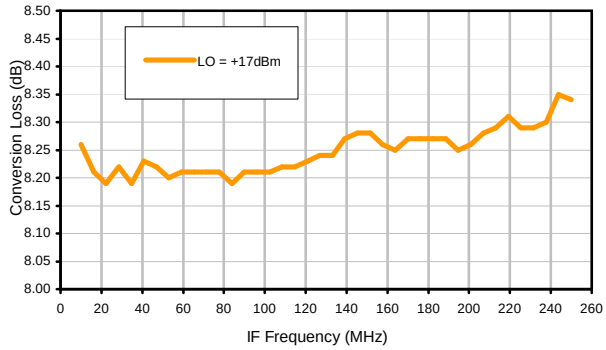
Conversion Loss vs. IF @ RF=1900.1MHz



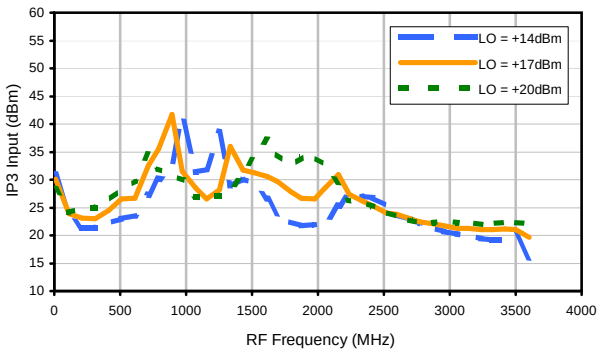
Conversion Loss vs. IF @ RF=1400.1MHz



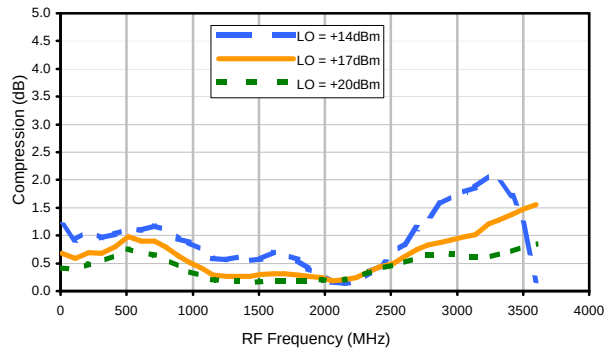
Conversion Loss vs. IF @ RF=2400.1MHz



IP3 Input

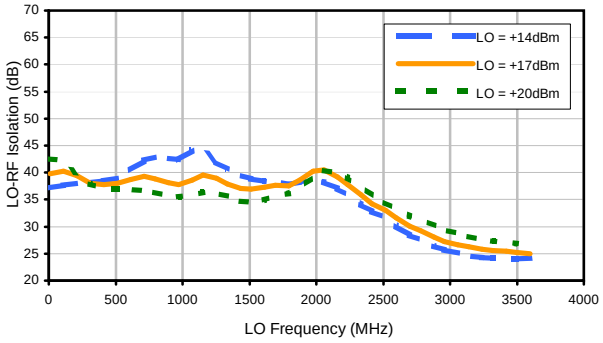


Compression @ RF IN=+14dBm

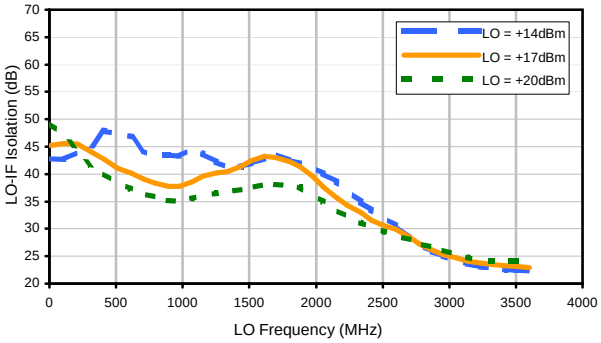


Typical Performance Curves

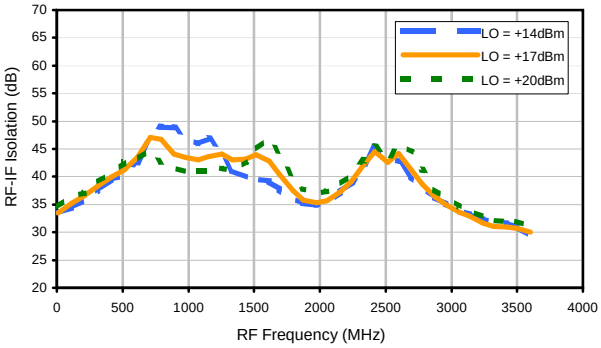
LO-RF Isolation



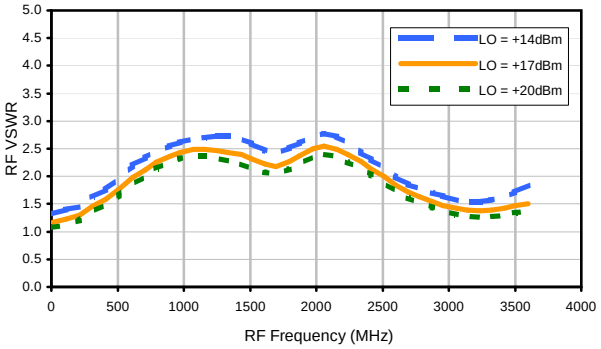
LO-IF Isolation



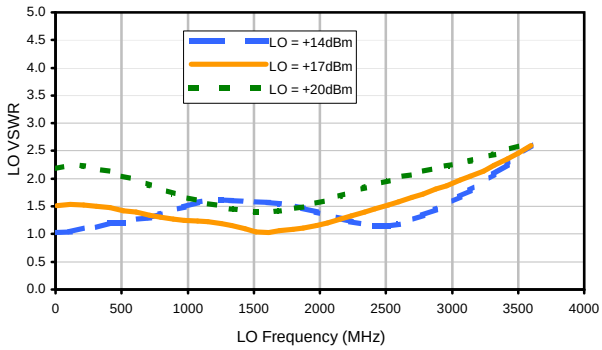
RF-IF Isolation



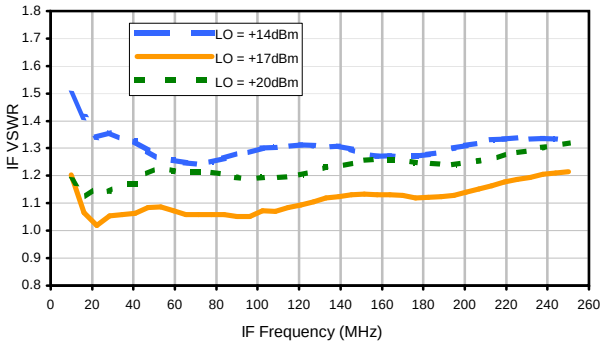
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	13	7	29	29	29	40	28	45	45	75
1	-	31	+0	43	15	45	28	42	56	42	56	70
2	99	52	61	60	60	50	80	61	67	65	61	69
3	>100	84	69	77	58	76	58	91	63	81	80	87
4	>100	>92	>92	89	>92	82	>92	88	>92	>92	>92	>92
5	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
6	>100	>92	>92	>92	>92	>92	>92	92	>92	>92	>92	>92
7	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 1900.1 MHz; -1.00 dBm.**
LO IN: 1930.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -8.25 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	23	17	39	38	43	50	43	58	65	79
1	-	31	+0	45	16	45	32	46	69	46	59	64
2	84	44	52	52	48	42	69	54	58	75	60	64
3	>100	63	57	60	41	60	40	69	47	61	67	63
4	>100	68	79	61	69	64	68	61	74	68	76	68
5	>100	84	66	92	63	78	59	75	60	94	65	77
6	>100	93	95	86	93	84	87	91	80	80	83	85
7	>100	96	101	100	91	99	88	87	85	83	82	97
8	>100	>102	>102	>102	>102	98	100	94	94	93	89	90
9	>100	>102	>102	>102	>102	>102	>102	>102	101	>102	>102	>102
10	>100	>102	>102	>102	>102	>102	>102	>102	>102	100	>102	>102
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 1900.1 MHz; 9.00 dBm.**
LO IN: 1930.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 1.75 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.