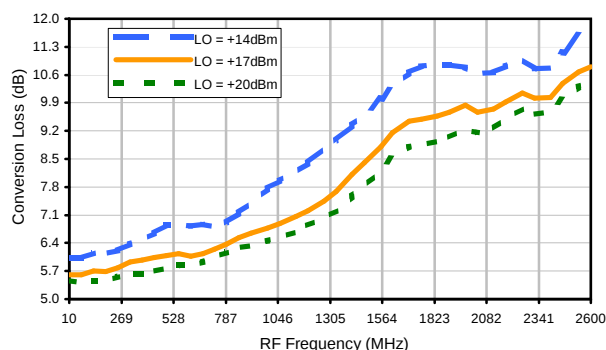


Frequency Mixer

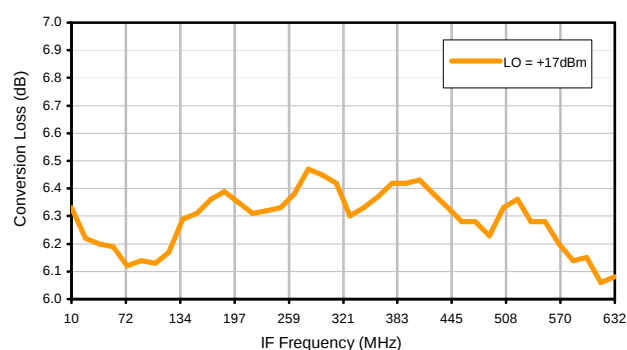
SYM-ED7819/1

Typical Performance Curves

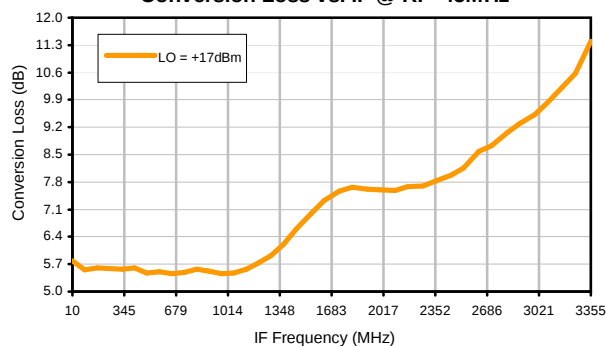
Conversion Loss @ IF=30MHz



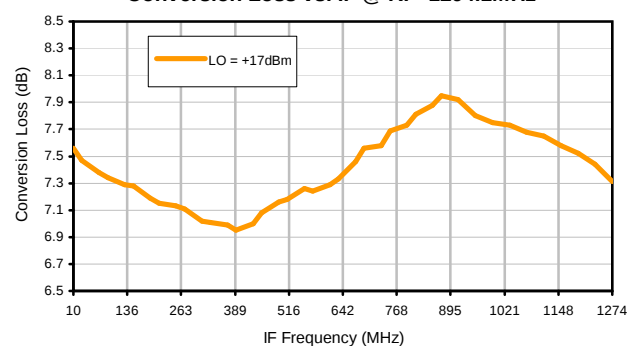
Conversion Loss vs. IF @ RF=652.1MHz



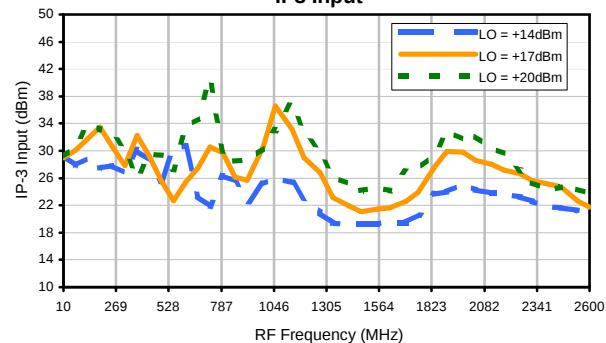
Conversion Loss vs. IF @ RF=45MHz



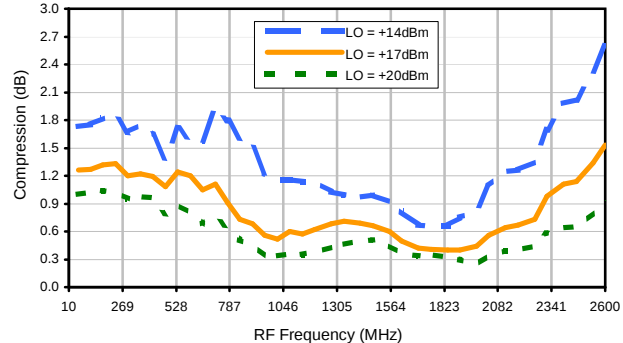
Conversion Loss vs. IF @ RF=1294.1MHz



IP3 Input

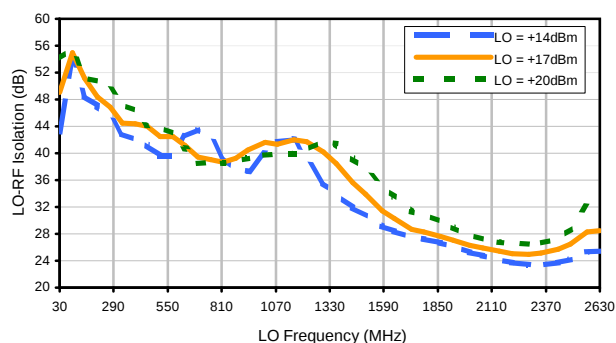


Compression @ RF IN=+15dBm

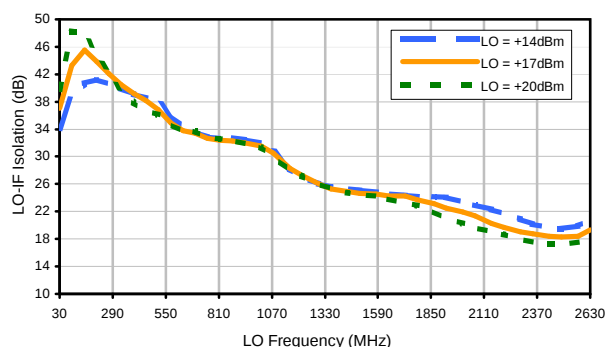


Typical Performance Curves

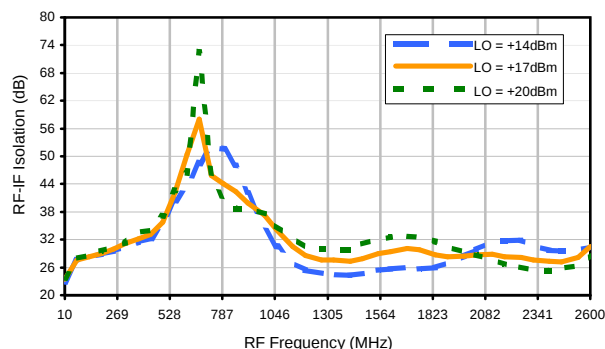
LO-RF Isolation



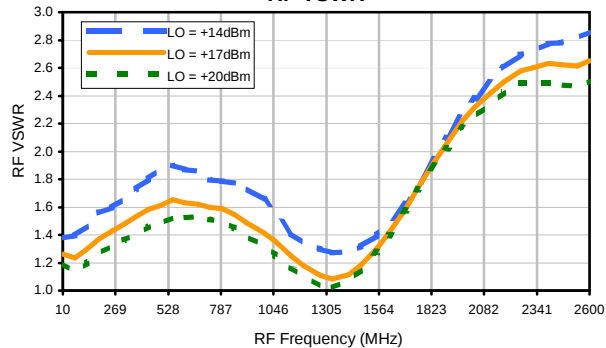
LO-IF Isolation



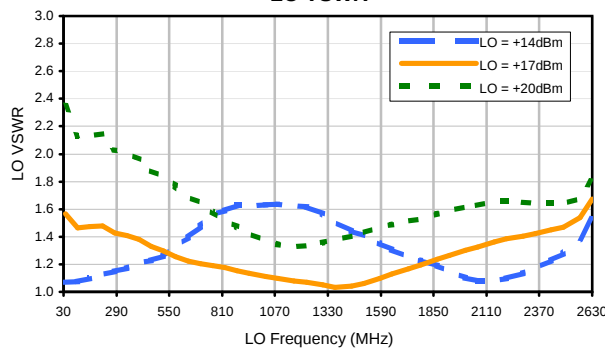
RF-IF Isolation



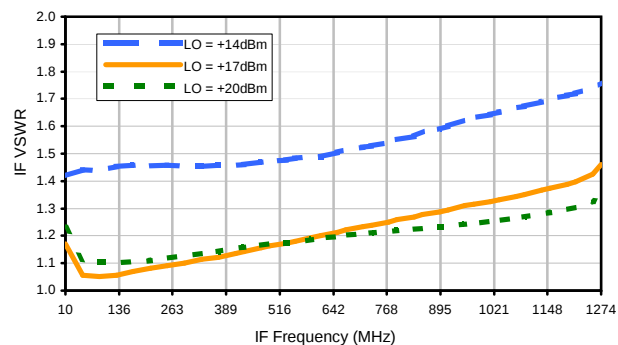
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	25	33	31	25	27	32	40	34	40
1	-	44	+0	35	13	38	29	36	32	42	28	49
2	62	46	41	46	43	43	46	54	51	50	58	51
3	>90	67	56	60	61	68	58	62	54	67	55	68
4	>90	73	70	77	71	73	71	70	74	67	70	68
5	>90	>83	80	82	80	82	>83	>83	>83	81	>83	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 650 MHz; 0.00 dBm.
LO IN: 680 MHz; +17.00 dBm
IF OUT: 30 MHz; -6.72 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	28	31	45	42	41	47	51	52	57
1	-	43	+0	32	14	35	32	40	41	52	40	66
2	42	44	35	38	39	38	43	54	54	45	55	51
3	69	51	51	46	54	62	52	51	45	56	55	56
4	>90	56	54	50	64	47	56	53	54	50	60	50
5	>90	54	50	68	53	57	48	60	50	56	73	66
6	>90	71	64	72	62	65	68	64	90	61	66	56
7	>90	77	64	81	63	72	64	70	68	67	64	66
8	>90	77	80	78	80	72	68	71	70	68	77	64
9	>90	87	86	82	88	74	74	87	80	75	75	79
10	>90	81	91	81	88	80	88	76	76	80	78	73
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 650 MHz; 10.00 dBm.
LO IN: 680 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.74 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.