

Frequency Mixer

HJK-ED10324E/3

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=140MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
920.0	780.0	13.70	11.51	9.91	920.0	780.0	9.49	10.17	11.29	920.0	780.0	8.72	7.83	6.48
970.0	830.0	13.35	11.24	9.75	970.0	830.0	9.39	10.17	11.44	970.0	830.0	8.84	7.75	6.27
1020.0	880.0	12.66	10.83	9.48	1020.0	880.0	9.60	10.53	12.09	1020.0	880.0	8.42	7.21	5.61
1070.0	930.0	12.22	10.53	9.33	1070.0	930.0	9.94	11.10	12.99	1070.0	930.0	7.99	6.66	4.92
1120.0	980.0	11.65	10.16	9.15	1120.0	980.0	10.22	11.62	13.73	1120.0	980.0	7.49	5.95	4.25
1170.0	1030.0	11.23	9.91	9.01	1170.0	1030.0	10.54	12.23	14.62	1170.0	1030.0	6.95	5.37	3.66
1220.0	1080.0	10.83	9.72	8.90	1220.0	1080.0	11.11	13.10	15.66	1220.0	1080.0	6.23	4.58	2.90
1270.0	1130.0	10.46	9.45	8.69	1270.0	1130.0	11.79	13.95	16.67	1270.0	1130.0	5.61	3.96	2.32
1320.0	1180.0	10.24	9.28	8.58	1320.0	1180.0	12.28	14.77	17.53	1320.0	1180.0	4.97	3.29	1.89
1370.0	1230.0	9.90	9.05	8.44	1370.0	1230.0	13.30	16.07	18.91	1370.0	1230.0	4.15	2.53	1.38
1420.0	1280.0	9.68	8.88	8.29	1420.0	1280.0	14.13	17.06	19.93	1420.0	1280.0	3.60	2.11	1.14
1470.0	1330.0	9.39	8.69	8.17	1470.0	1330.0	15.18	18.42	21.54	1470.0	1330.0	2.84	1.57	0.83
1520.0	1380.0	9.14	8.46	7.97	1520.0	1380.0	16.04	19.64	23.26	1520.0	1380.0	2.33	1.24	0.64
1570.0	1430.0	8.87	8.26	7.79	1570.0	1430.0	17.22	21.02	25.02	1570.0	1430.0	1.78	0.94	0.45
1610.0	1470.0	8.66	8.03	7.58	1610.0	1470.0	17.63	21.75	25.88	1610.0	1470.0	1.56	0.77	0.38
1660.0	1520.0	8.42	7.85	7.44	1660.0	1520.0	18.68	23.19	27.39	1660.0	1520.0	1.25	0.56	0.24
1700.0	1560.0	8.37	7.81	7.40	1700.0	1560.0	19.18	23.80	27.95	1700.0	1560.0	1.13	0.49	0.21
1750.0	1610.0	8.24	7.72	7.31	1750.0	1610.0	20.59	25.02	28.96	1750.0	1610.0	0.96	0.39	0.15
1790.0	1650.0	8.28	7.73	7.28	1790.0	1650.0	21.65	25.85	29.29	1790.0	1650.0	0.90	0.32	0.11
1840.0	1700.0	8.06	7.55	7.10	1840.0	1700.0	22.84	26.03	28.98	1840.0	1700.0	0.79	0.27	0.09
1880.0	1740.0	8.12	7.60	7.16	1880.0	1740.0	22.73	25.20	28.08	1880.0	1740.0	0.73	0.27	0.10
1930.0	1790.0	7.89	7.39	6.99	1930.0	1790.0	21.92	24.40	27.13	1930.0	1790.0	0.82	0.32	0.14
1970.0	1830.0	7.98	7.47	7.05	1970.0	1830.0	21.30	23.96	26.76	1970.0	1830.0	0.95	0.39	0.17
2020.0	1880.0	7.83	7.31	6.91	2020.0	1880.0	20.15	23.09	26.02	2020.0	1880.0	1.21	0.51	0.24
2060.0	1920.0	8.00	7.46	7.04	2060.0	1920.0	19.71	22.50	25.51	2060.0	1920.0	1.31	0.57	0.27
2110.0	1970.0	7.98	7.43	7.00	2110.0	1970.0	18.81	21.63	24.70	2110.0	1970.0	1.66	0.75	0.35
2150.0	2010.0	8.23	7.63	7.17	2150.0	2010.0	18.04	20.99	24.10	2150.0	2010.0	1.90	0.87	0.41
2200.0	2060.0	8.30	7.67	7.20	2200.0	2060.0	16.79	19.84	22.83	2200.0	2060.0	2.53	1.24	0.57
2240.0	2100.0	8.51	7.87	7.37	2240.0	2100.0	16.35	19.29	22.28	2240.0	2100.0	2.73	1.42	0.66
2290.0	2150.0	8.77	8.07	7.54	2290.0	2150.0	15.14	18.18	21.10	2290.0	2150.0	3.49	1.97	0.93
2330.0	2190.0	8.94	8.19	7.66	2330.0	2190.0	14.68	17.68	20.68	2330.0	2190.0	3.70	2.11	1.02
2380.0	2240.0	9.33	8.47	7.89	2380.0	2240.0	13.53	16.57	19.58	2380.0	2240.0	4.42	2.73	1.42
2420.0	2280.0	9.41	8.57	7.95	2420.0	2280.0	13.23	16.20	19.25	2420.0	2280.0	4.52	2.90	1.49
2470.0	2330.0	9.97	8.99	8.29	2470.0	2330.0	12.02	14.80	17.89	2470.0	2330.0	5.17	3.62	2.05
2510.0	2370.0	10.07	9.08	8.37	2510.0	2370.0	11.88	14.64	17.78	2510.0	2370.0	5.16	3.62	2.06
2560.0	2420.0	10.88	9.66	8.82	2560.0	2420.0	10.81	13.25	16.24	2560.0	2420.0	5.78	4.35	2.74
2600.0	2460.0	10.81	9.62	8.86	2600.0	2460.0	10.88	13.38	16.35	2600.0	2460.0	5.72	4.24	2.73
2650.0	2510.0	11.66	10.26	9.33	2650.0	2510.0	10.10	12.18	14.94	2650.0	2510.0	6.16	4.88	3.37
2690.0	2550.0	11.69	10.32	9.43	2690.0	2550.0	10.08	12.17	14.98	2690.0	2550.0	6.19	4.91	3.41
2740.0	2600.0	12.55	11.00	9.90	2740.0	2600.0	9.51	11.19	13.87	2740.0	2600.0	6.40	5.24	3.85

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Frequency Mixer

HJK-ED10324E/3

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1900MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1689.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2100.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
600.0	1300.0	11.50	10.1	1700.0	7.63	610.1	1490.0	11.21
578.1	1321.9	11.30	20.1	1710.0	7.39	590.1	1510.0	10.91
556.3	1343.7	11.11	30.1	1720.0	7.38	570.1	1530.0	10.77
534.4	1365.6	10.89	40.1	1730.0	7.37	550.1	1550.0	10.47
512.6	1387.4	10.59	50.1	1740.0	7.39	530.1	1570.0	10.17
490.7	1409.3	10.32	60.1	1750.0	7.40	520.1	1580.0	10.02
468.9	1431.1	10.09	70.1	1760.0	7.41	500.1	1600.0	9.74
447.0	1453.0	9.92	80.1	1770.0	7.38	490.1	1610.0	9.57
403.3	1496.7	9.39	90.1	1780.0	7.41	470.1	1630.0	9.33
381.5	1518.5	9.16	100.1	1790.0	7.42	460.1	1640.0	9.25
337.8	1562.2	8.76	110.1	1800.0	7.46	440.1	1660.0	8.92
315.9	1584.1	8.49	120.1	1810.0	7.47	430.1	1670.0	8.75
272.2	1627.8	8.12	130.1	1820.0	7.50	410.1	1690.0	8.56
250.4	1649.6	7.96	140.1	1830.0	7.52	400.1	1700.0	8.49
206.7	1693.3	7.66	150.1	1840.0	7.57	380.1	1720.0	8.33
184.8	1715.2	7.57	160.1	1850.0	7.60	370.1	1730.0	8.23
141.1	1758.9	7.42	170.1	1860.0	7.61	350.1	1750.0	8.06
119.3	1780.7	7.36	180.1	1870.0	7.66	340.1	1760.0	7.98
75.6	1824.4	7.32	200.1	1890.0	7.75	320.1	1780.0	7.85
53.7	1846.3	7.31	210.1	1900.0	7.78	310.1	1790.0	7.78
10.0	1890.0	7.53	230.1	1920.0	7.88	290.1	1810.0	7.69
10.0	1910.0	7.60	240.1	1930.0	7.98	280.1	1820.0	7.63
46.3	1946.3	7.56	260.1	1950.0	8.14	260.1	1840.0	7.56
64.4	1964.4	7.65	270.1	1960.0	8.18	250.1	1850.0	7.57
100.7	2000.7	7.82	290.1	1980.0	8.30	230.1	1870.0	7.53
118.9	2018.9	7.97	300.1	1990.0	8.40	220.1	1880.0	7.44
155.2	2055.2	8.23	320.1	2010.0	8.59	200.1	1900.0	7.39
173.3	2073.3	8.29	330.1	2020.0	8.67	190.1	1910.0	7.43
209.6	2109.6	8.73	350.1	2040.0	8.92	170.1	1930.0	7.41
227.8	2127.8	9.03	360.1	2050.0	9.00	160.1	1940.0	7.42
264.1	2164.1	9.28	380.1	2070.0	9.12	140.1	1960.0	7.45
282.2	2182.2	9.47	390.1	2080.0	9.26	130.1	1970.0	7.43
318.5	2218.5	10.36	410.1	2100.0	9.49	110.1	1990.0	7.42
336.7	2236.7	10.53	420.1	2110.0	9.51	100.1	2000.0	7.46
373.0	2273.0	10.79	440.1	2130.0	9.85	80.1	2020.0	7.52
391.1	2291.1	11.25	450.1	2140.0	10.05	70.1	2030.0	7.56
427.4	2327.4	12.01	470.1	2160.0	10.15	50.1	2050.0	7.60
445.6	2345.6	12.12	480.1	2170.0	10.27	40.1	2060.0	7.62
481.9	2381.9	12.50	500.1	2190.0	10.57	20.1	2080.0	7.64
500.0	2400.0	13.02	510.1	2200.0	10.64	10.1	2090.0	7.90

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
780.0	41.16	40.72	40.24	38.89	38.74	38.71
830.0	40.69	40.33	39.92	38.70	38.65	38.63
880.0	40.53	40.39	40.19	38.72	38.75	38.72
930.0	39.51	39.21	38.88	38.91	39.06	39.13
980.0	39.35	39.10	38.98	39.27	39.51	39.75
1030.0	40.22	40.08	40.11	39.86	40.14	40.47
1080.0	41.48	41.63	41.86	40.68	41.08	41.52
1130.0	43.19	43.80	44.63	41.69	42.15	42.53
1180.0	40.08	40.55	40.98	42.67	43.19	43.71
1230.0	39.58	39.84	40.07	43.18	43.74	44.35
1280.0	41.88	42.36	42.68	44.40	45.08	45.84
1330.0	44.77	45.64	46.43	45.12	45.72	46.36
1380.0	47.70	49.54	50.76	44.36	44.65	45.07
1430.0	51.91	55.34	56.69	41.69	41.88	41.95
1470.0	55.04	60.48	58.67	39.60	39.59	39.72
1520.0	61.84	62.42	55.63	36.92	36.91	37.01
1560.0	62.81	58.42	53.44	35.27	35.30	35.37
1610.0	57.19	52.56	49.88	33.47	33.49	33.58
1650.0	53.84	50.55	48.65	32.26	32.28	32.38
1700.0	49.24	47.69	46.50	31.01	31.14	31.23
1740.0	46.93	45.36	44.25	30.44	30.59	30.77
1790.0	45.91	44.49	43.35	30.14	30.35	30.55
1830.0	47.45	46.05	44.91	30.31	30.52	30.77
1880.0	49.79	48.15	46.85	30.96	31.07	31.29
1920.0	53.62	51.60	49.78	31.59	31.77	32.07
1970.0	66.11	60.12	54.06	32.62	32.75	33.04
2010.0	52.32	55.99	55.42	33.33	33.34	33.54
2060.0	46.55	48.24	48.59	34.00	33.99	34.10
2100.0	43.68	44.82	45.16	34.13	34.21	34.24
2150.0	41.67	42.34	42.50	34.07	34.03	34.02
2190.0	40.35	40.81	40.78	33.69	33.57	33.52
2240.0	39.05	39.16	39.17	32.96	32.74	32.85
2280.0	38.50	38.42	38.16	32.19	32.11	32.07
2330.0	37.75	37.53	37.12	31.39	31.41	31.36
2370.0	37.24	36.84	36.30	30.78	30.77	30.69
2420.0	36.96	36.39	35.77	30.03	30.02	29.97
2460.0	36.34	35.63	35.17	29.37	29.32	29.42
2510.0	36.02	35.15	34.72	28.67	28.64	28.74
2550.0	35.35	34.55	34.05	28.14	28.14	28.24
2600.0	35.15	34.27	33.61	27.54	27.57	27.54

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
920.0	780.0	28.12	27.85	27.36
970.0	830.0	28.45	28.50	28.00
1020.0	880.0	28.85	29.11	28.58
1070.0	930.0	29.22	30.19	30.52
1120.0	980.0	29.67	31.08	31.80
1170.0	1030.0	30.28	31.89	32.80
1220.0	1080.0	30.90	32.70	34.02
1270.0	1130.0	31.11	32.82	34.18
1320.0	1180.0	31.15	32.79	34.06
1370.0	1230.0	31.43	33.10	34.44
1420.0	1280.0	31.53	33.16	34.55
1470.0	1330.0	31.85	33.32	34.57
1520.0	1380.0	31.98	33.32	34.42
1570.0	1430.0	32.32	33.40	34.43
1610.0	1470.0	32.38	33.34	34.12
1660.0	1520.0	32.40	33.09	33.66
1700.0	1560.0	32.27	32.81	33.23
1750.0	1610.0	32.45	32.86	33.17
1790.0	1650.0	32.72	33.10	33.37
1840.0	1700.0	33.36	33.67	33.88
1880.0	1740.0	33.93	34.16	34.31
1930.0	1790.0	34.45	34.58	34.60
1970.0	1830.0	34.67	34.60	34.50
2020.0	1880.0	34.55	34.27	33.95
2060.0	1920.0	34.40	34.00	33.58
2110.0	1970.0	34.12	33.56	33.01
2150.0	2010.0	34.06	33.38	32.75
2200.0	2060.0	33.93	33.16	32.51
2240.0	2100.0	33.64	32.86	32.15
2290.0	2150.0	33.36	32.54	31.81
2330.0	2190.0	32.70	31.91	31.22
2380.0	2240.0	32.16	31.39	30.76
2420.0	2280.0	31.47	30.82	30.18
2470.0	2330.0	30.90	30.31	29.77
2510.0	2370.0	30.27	29.77	29.30
2560.0	2420.0	29.62	29.18	28.78
2600.0	2460.0	29.06	28.68	28.34
2650.0	2510.0	28.55	28.22	27.94
2690.0	2550.0	28.16	27.90	27.64
2740.0	2600.0	27.72	27.49	27.32

Frequency Mixer

HJK-ED10324E/3

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1840MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
920.0	780.0	1.50	1.58	1.62	780.0	34.75	34.75	34.75	10.0	1.31	1.20	1.12
970.0	830.0	1.46	1.53	1.55	830.0	34.07	34.07	34.07	20.0	1.32	1.22	1.12
1020.0	880.0	1.45	1.50	1.50	880.0	32.79	32.79	32.79	30.0	1.32	1.21	1.13
1070.0	930.0	1.46	1.51	1.53	930.0	32.79	32.18	32.79	40.0	1.31	1.21	1.12
1120.0	980.0	1.50	1.54	1.57	980.0	31.03	31.03	31.03	50.0	1.34	1.23	1.14
1170.0	1030.0	1.54	1.58	1.62	1030.0	29.46	29.46	29.46	60.0	1.37	1.26	1.17
1220.0	1080.0	1.59	1.63	1.67	1080.0	27.16	27.16	27.16	70.0	1.39	1.28	1.19
1270.0	1130.0	1.63	1.66	1.70	1130.0	24.14	24.14	24.14	80.0	1.41	1.30	1.21
1320.0	1180.0	1.65	1.67	1.72	1180.0	20.22	20.22	20.22	90.0	1.44	1.33	1.24
1370.0	1230.0	1.65	1.67	1.72	1230.0	19.54	19.76	19.76	100.0	1.47	1.36	1.28
1420.0	1280.0	1.62	1.63	1.68	1280.0	18.90	18.90	19.11	110.0	1.50	1.39	1.30
1470.0	1330.0	1.58	1.58	1.63	1330.0	17.22	17.39	17.22	120.0	1.52	1.41	1.32
1520.0	1380.0	1.50	1.48	1.52	1380.0	15.00	15.13	15.26	130.0	1.56	1.44	1.35
1570.0	1430.0	1.41	1.37	1.39	1430.0	12.80	12.80	12.80	140.0	1.58	1.46	1.37
1610.0	1470.0	1.35	1.28	1.27	1470.0	10.89	10.96	11.03	150.0	1.62	1.49	1.40
1660.0	1520.0	1.30	1.18	1.12	1520.0	8.64	8.68	8.64	160.0	1.67	1.55	1.44
1700.0	1560.0	1.34	1.21	1.10	1560.0	7.02	7.05	7.00	170.0	1.73	1.60	1.49
1750.0	1610.0	1.46	1.35	1.27	1610.0	5.25	5.23	5.16	180.0	1.77	1.64	1.53
1790.0	1650.0	1.66	1.56	1.47	1650.0	4.04	4.02	3.95	200.0	1.87	1.73	1.62
1840.0	1700.0	1.86	1.76	1.68	1700.0	2.78	2.75	2.68	210.0	1.92	1.78	1.66
1880.0	1740.0	1.99	1.89	1.80	1740.0	2.04	2.01	1.95	230.0	1.98	1.83	1.70
1930.0	1790.0	2.07	1.96	1.86	1790.0	1.37	1.35	1.30	240.0	2.07	1.91	1.78
1970.0	1830.0	2.06	1.95	1.85	1830.0	1.04	1.03	1.04	260.0	2.20	2.03	1.90
2020.0	1880.0	2.00	1.88	1.78	1880.0	1.41	1.43	1.47	270.0	2.27	2.10	1.95
2060.0	1920.0	1.93	1.81	1.71	1920.0	1.81	1.83	1.88	290.0	2.43	2.25	2.10
2110.0	1970.0	1.83	1.72	1.62	1970.0	2.39	2.42	2.47	300.0	2.47	2.28	2.13
2150.0	2010.0	1.75	1.63	1.53	2010.0	2.91	2.92	2.98	320.0	2.62	2.43	2.26
2200.0	2060.0	1.67	1.56	1.46	2060.0	3.60	3.61	3.65	330.0	2.70	2.50	2.33
2240.0	2100.0	1.60	1.50	1.41	2100.0	4.21	4.21	4.24	350.0	2.90	2.69	2.51
2290.0	2150.0	1.53	1.42	1.33	2150.0	4.98	4.95	4.96	360.0	3.02	2.80	2.62
2330.0	2190.0	1.46	1.36	1.27	2190.0	5.63	5.59	5.61	380.0	3.17	2.94	2.75
2380.0	2240.0	1.39	1.29	1.20	2240.0	6.44	6.39	6.37	390.0	3.29	3.06	2.86
2420.0	2280.0	1.32	1.23	1.14	2280.0	7.17	7.11	7.08	410.0	3.45	3.20	2.99
2470.0	2330.0	1.27	1.18	1.09	2330.0	8.05	7.94	7.87	420.0	3.55	3.30	3.09
2510.0	2370.0	1.23	1.14	1.06	2370.0	8.72	8.64	8.60	440.0	3.86	3.60	3.37
2560.0	2420.0	1.21	1.14	1.11	2420.0	9.69	9.53	9.43	450.0	3.91	3.65	3.42
2600.0	2460.0	1.19	1.14	1.15	2460.0	10.31	10.19	10.13	470.0	4.26	3.98	3.74
2650.0	2510.0	1.22	1.20	1.22	2510.0	11.09	10.89	10.69	480.0	4.37	4.09	3.84
2690.0	2550.0	1.25	1.25	1.29	2550.0	11.85	11.69	11.61	500.0	4.53	4.24	3.99
2740.0	2600.0	1.30	1.32	1.38	2600.0	12.80	12.52	12.26	510.0	4.73	4.43	4.18

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	33	32	44	42	49	33	48	50	68
1	-	24	+0	29	31	37	52	39	52	41	50	52
2	59	68	64	60	71	>83	76	68	64	70	62	73
3	>90	>83	82	>83	58	67	77	82	81	75	80	71
4	>90	>83	>83	>83	>83	79	>83	>83	>83	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>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: 1900 MHz; 0.00 dBm.
LO IN: 1760 MHz; +10.00 dBm
IF OUT: 140 MHz; -7.2 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	44	43	49	48	52	49	58	59	84
1	-	23	+0	30	33	37	53	40	67	46	60	60
2	39	62	56	58	58	68	66	66	63	66	70	67
3	67	68	62	73	38	46	59	75	74	61	59	59
4	>90	70	90	81	81	62	72	>93	85	73	81	73
5	>90	82	81	85	>93	>93	65	62	85	79	80	74
6	>90	87	>93	90	>93	>93	>93	75	79	>93	>93	88
7	>90	>93	>93	>93	>93	>93	>93	>93	78	78	>93	>93
8	>90	>93	>93	>93	>93	>93	>93	>93	>93	89	84	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	90	89
10	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1900 MHz; 10.00 dBm.
LO IN: 1760 MHz; +10.00 dBm
IF OUT: 140 MHz; 2.59 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.