

Frequency Mixer

HJK-ED14732/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+15	+17	+19			+15	+17	+19			+15	+17	+19
600.1	530.1	7.41	7.29	7.20	600.1	530.1	24.70	25.40	26.19	600.1	530.1	1.85	1.06	0.58
625.1	555.1	7.34	7.25	7.13	625.1	555.1	25.13	25.78	26.55	625.1	555.1	1.29	0.64	0.39
650.1	580.1	7.36	7.28	7.19	650.1	580.1	25.29	25.96	26.74	650.1	580.1	0.88	0.46	0.33
675.1	605.1	7.37	7.28	7.22	675.1	605.1	25.41	26.07	26.84	675.1	605.1	0.57	0.35	0.24
700.1	630.1	7.25	7.19	7.09	700.1	630.1	25.08	25.90	26.91	700.1	630.1	0.53	0.35	0.27
705.1	635.1	7.22	7.16	7.11	705.1	635.1	25.19	26.00	27.06	705.1	635.1	0.49	0.34	0.23
710.1	640.1	7.22	7.15	7.10	710.1	640.1	25.21	26.11	27.21	710.1	640.1	0.46	0.30	0.25
715.1	645.1	7.22	7.16	7.08	715.1	645.1	25.23	26.13	27.39	715.1	645.1	0.47	0.30	0.27
720.1	650.1	7.22	7.16	7.10	720.1	650.1	25.34	26.28	27.60	720.1	650.1	0.47	0.32	0.26
725.1	655.1	7.25	7.16	7.13	725.1	655.1	25.43	26.46	27.93	725.1	655.1	0.45	0.35	0.24
730.1	660.1	7.24	7.17	7.13	730.1	660.1	25.45	26.56	28.13	730.1	660.1	0.48	0.37	0.27
735.1	665.1	7.23	7.18	7.14	735.1	665.1	25.47	26.65	28.28	735.1	665.1	0.49	0.37	0.27
740.1	670.1	7.23	7.18	7.14	740.1	670.1	25.52	26.74	28.50	740.1	670.1	0.48	0.35	0.29
750.1	680.1	7.21	7.14	7.11	750.1	680.1	25.68	27.05	28.91	750.1	680.1	0.47	0.33	0.25
760.1	690.1	7.15	7.10	7.06	760.1	690.1	25.85	27.35	29.30	760.1	690.1	0.47	0.37	0.27
770.1	700.1	7.08	7.06	7.03	770.1	700.1	26.10	27.67	29.69	770.1	700.1	0.51	0.39	0.24
780.1	710.1	7.07	6.99	6.96	780.1	710.1	26.34	28.03	30.05	780.1	710.1	0.51	0.39	0.29
790.1	720.1	6.98	6.94	6.91	790.1	720.1	26.64	28.37	30.39	790.1	720.1	0.52	0.38	0.27
795.1	725.1	6.94	6.91	6.84	795.1	725.1	26.83	28.56	30.62	795.1	725.1	0.49	0.33	0.27
800.1	730.1	6.89	6.85	6.79	800.1	730.1	26.95	28.74	30.77	800.1	730.1	0.51	0.33	0.26
810.1	740.1	6.88	6.80	6.75	810.1	740.1	27.44	29.31	31.26	810.1	740.1	0.42	0.35	0.26
820.1	750.1	6.90	6.82	6.77	820.1	750.1	27.92	29.87	31.88	820.1	750.1	0.43	0.32	0.23
830.1	760.1	6.92	6.84	6.78	830.1	760.1	28.37	30.39	32.27	830.1	760.1	0.42	0.33	0.27
840.1	770.1	6.96	6.88	6.85	840.1	770.1	28.79	30.78	32.76	840.1	770.1	0.37	0.26	0.13
850.1	780.1	6.95	6.90	6.82	850.1	780.1	29.32	31.41	33.38	850.1	780.1	0.37	0.25	0.21
860.1	790.1	7.00	6.92	6.87	860.1	790.1	30.04	32.26	34.34	860.1	790.1	0.35	0.27	0.17
870.1	800.1	7.06	7.00	6.92	870.1	800.1	30.52	32.83	34.86	870.1	800.1	0.33	0.19	0.14
880.1	810.1	7.09	7.02	6.94	880.1	810.1	30.53	32.86	34.93	880.1	810.1	0.32	0.22	0.15
890.1	820.1	7.09	7.02	6.95	890.1	820.1	30.47	32.66	34.48	890.1	820.1	0.27	0.15	0.12
900.1	830.1	7.12	7.00	6.98	900.1	830.1	30.57	32.76	34.68	900.1	830.1	0.25	0.24	0.13
910.1	840.1	7.14	7.07	7.01	910.1	840.1	30.82	32.98	35.03	910.1	840.1	0.31	0.17	0.13
920.1	850.1	7.21	7.14	7.08	920.1	850.1	30.73	32.90	34.85	920.1	850.1	0.31	0.20	0.15
930.1	860.1	7.25	7.19	7.12	930.1	860.1	30.35	32.52	34.55	930.1	860.1	0.34	0.21	0.15
940.1	870.1	7.31	7.24	7.16	940.1	870.1	30.20	32.42	34.26	940.1	870.1	0.32	0.20	0.15
950.1	880.1	7.37	7.30	7.26	950.1	880.1	30.24	32.32	34.22	950.1	880.1	0.31	0.23	0.11
960.1	890.1	7.41	7.34	7.27	960.1	890.1	30.10	32.23	34.12	960.1	890.1	0.38	0.21	0.18
970.1	900.1	7.45	7.36	7.31	970.1	900.1	29.64	31.75	33.51	970.1	900.1	0.35	0.26	0.19
980.1	910.1	7.42	7.37	7.29	980.1	910.1	29.21	31.16	33.01	980.1	910.1	0.42	0.27	0.19
990.1	920.1	7.47	7.40	7.34	990.1	920.1	28.98	30.92	32.61	990.1	920.1	0.39	0.26	0.21
1000.1	930.1	7.53	7.47	7.44	1000.1	930.1	28.81	30.76	32.48	1000.1	930.1	0.39	0.26	0.10

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=920MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=915.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=925.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
749.9	170.1	12.61	10.0	925.1	6.78	750.0	175.1	12.11
719.9	200.1	11.54	25.0	940.1	7.31	740.0	185.1	11.94
679.9	240.1	10.37	45.0	960.1	7.33	720.0	205.1	11.21
639.9	280.1	10.02	65.0	980.1	7.42	700.0	225.1	10.54
599.9	320.1	9.37	85.0	1000.1	7.47	680.0	245.1	10.34
569.9	350.1	9.06	105.0	1020.1	7.52	660.0	265.1	10.16
529.9	390.1	8.64	125.0	1040.1	7.57	640.0	285.1	9.98
489.9	430.1	8.30	145.0	1060.1	7.65	620.0	305.1	9.59
454.9	465.1	7.99	160.0	1075.1	7.68	600.0	325.1	9.38
414.9	505.1	7.88	180.0	1095.1	7.70	580.0	345.1	9.20
384.9	535.1	7.75	200.0	1115.1	7.79	570.0	355.1	9.14
344.9	575.1	7.63	220.0	1135.1	7.82	550.0	375.1	9.04
304.9	615.1	7.44	240.0	1155.1	7.90	530.0	395.1	8.74
264.9	655.1	7.23	260.0	1175.1	7.96	510.0	415.1	8.54
224.9	695.1	6.99	280.0	1195.1	7.96	490.0	435.1	8.41
194.9	725.1	7.00	300.0	1215.1	8.07	470.0	455.1	8.31
154.9	765.1	7.05	315.0	1230.1	8.08	450.0	475.1	8.13
114.9	805.1	7.20	335.0	1250.1	8.14	430.0	495.1	7.94
74.9	845.1	7.25	355.0	1270.1	8.18	410.0	515.1	7.86
34.9	885.1	7.26	375.0	1290.1	8.27	390.0	535.1	7.77
10.1	930.1	6.83	395.0	1310.1	8.27	380.0	545.1	7.73
40.1	960.1	7.34	415.0	1330.1	8.27	360.0	565.1	7.62
80.1	1000.1	7.46	435.0	1350.1	8.29	340.0	585.1	7.52
120.1	1040.1	7.56	455.0	1370.1	8.18	320.0	605.1	7.41
160.1	1080.1	7.68	470.0	1385.1	8.24	300.0	625.1	7.32
200.1	1120.1	7.79	490.0	1405.1	8.22	280.0	645.1	7.22
240.1	1160.1	7.90	510.0	1425.1	8.25	260.0	665.1	7.18
270.1	1190.1	7.99	530.0	1445.1	8.25	240.0	685.1	7.05
310.1	1230.1	8.08	550.0	1465.1	8.26	220.0	705.1	6.95
350.1	1270.1	8.21	570.0	1485.1	8.28	200.0	725.1	6.97
390.1	1310.1	8.28	590.0	1505.1	8.32	190.0	735.1	6.96
430.1	1350.1	8.29	610.0	1525.1	8.34	170.0	755.1	6.99
470.1	1390.1	8.23	625.0	1540.1	8.37	150.0	775.1	7.08
510.1	1430.1	8.22	645.0	1560.1	8.43	130.0	795.1	7.15
540.1	1460.1	8.25	665.0	1580.1	8.44	110.0	815.1	7.19
580.1	1500.1	8.30	685.0	1600.1	8.50	90.0	835.1	7.18
620.1	1540.1	8.35	705.0	1620.1	8.59	70.0	855.1	7.22
660.1	1580.1	8.43	725.0	1640.1	8.66	50.0	875.1	7.24
700.1	1620.1	8.54	745.0	1660.1	8.73	30.0	895.1	7.20
740.1	1660.1	8.70	765.0	1680.1	8.78	10.0	915.1	6.74

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+15	+17	+19	+15	+17	+19
530.1	64.84	64.85	64.24	40.76	40.94	41.14
555.1	58.18	57.71	57.02	39.99	40.19	40.39
580.1	54.11	53.19	52.35	38.50	38.65	38.81
605.1	54.01	53.31	52.44	37.28	37.41	37.56
630.1	54.37	54.13	53.50	36.26	36.40	36.55
635.1	54.26	54.26	53.83	36.15	36.27	36.42
640.1	54.00	54.22	53.96	36.05	36.17	36.32
645.1	53.34	53.60	53.51	35.79	35.89	36.02
650.1	52.76	53.01	52.97	35.37	35.47	35.61
655.1	52.32	52.73	52.86	35.03	35.13	35.26
660.1	51.90	52.37	52.66	34.83	34.91	35.03
665.1	51.48	51.95	52.20	34.63	34.71	34.82
670.1	51.01	51.40	51.56	34.35	34.42	34.53
680.1	50.05	50.33	50.55	33.91	33.96	34.06
690.1	48.99	49.29	49.51	33.74	33.79	33.87
700.1	47.99	48.21	48.35	33.34	33.37	33.39
710.1	47.55	47.69	47.81	33.26	33.27	33.29
720.1	46.84	46.92	47.00	32.95	32.96	32.98
725.1	46.39	46.42	46.51	32.89	32.90	32.92
730.1	45.94	45.97	46.03	32.86	32.87	32.90
740.1	45.20	45.21	45.27	32.66	32.67	32.73
750.1	44.80	44.80	44.89	32.51	32.52	32.64
760.1	44.75	44.74	44.81	32.45	32.46	32.59
770.1	44.55	44.51	44.56	32.41	32.42	32.57
780.1	44.18	44.13	44.13	32.53	32.55	32.69
790.1	44.00	43.95	43.92	32.56	32.60	32.73
800.1	44.07	44.02	44.00	32.71	32.73	32.86
810.1	44.04	43.97	43.93	32.68	32.69	32.83
820.1	43.81	43.71	43.68	32.80	32.82	32.96
830.1	43.60	43.51	43.50	32.92	32.95	33.08
840.1	43.88	43.77	43.71	33.07	33.13	33.20
850.1	44.39	44.29	44.24	33.17	33.22	33.29
860.1	44.66	44.55	44.47	33.31	33.36	33.43
870.1	44.69	44.54	44.43	33.53	33.57	33.64
880.1	44.70	44.54	44.42	33.65	33.69	33.77
890.1	45.07	44.91	44.78	33.73	33.76	33.85
900.1	45.45	45.31	45.19	33.72	33.75	33.80
910.1	45.52	45.35	45.19	33.81	33.82	33.88
920.1	45.57	45.38	45.20	33.87	33.90	33.95
930.1	45.95	45.78	45.60	34.04	34.05	34.09

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+15	+17	+19
600.1	530.1	36.18	36.15	35.96
625.1	555.1	38.38	38.52	38.66
650.1	580.1	41.03	41.28	41.43
675.1	605.1	41.12	41.11	41.49
700.1	630.1	41.60	41.31	41.36
705.1	635.1	42.14	41.96	42.31
710.1	640.1	42.66	42.40	42.33
715.1	645.1	42.02	41.58	41.58
720.1	650.1	41.57	41.27	41.27
725.1	655.1	42.02	41.77	41.76
730.1	660.1	43.12	42.78	42.42
735.1	665.1	42.60	41.86	41.10
740.1	670.1	41.57	40.95	40.10
750.1	680.1	44.13	43.54	42.94
760.1	690.1	44.56	43.85	42.88
770.1	700.1	43.98	43.26	42.73
780.1	710.1	44.56	43.54	42.77
790.1	720.1	42.77	41.78	41.14
795.1	725.1	43.87	42.75	42.08
800.1	730.1	45.16	43.83	43.17
810.1	740.1	45.12	43.89	43.32
820.1	750.1	45.08	43.52	43.11
830.1	760.1	45.60	43.71	43.04
840.1	770.1	45.21	43.29	42.59
850.1	780.1	48.05	45.40	44.49
860.1	790.1	52.04	49.01	47.99
870.1	800.1	53.74	50.08	48.54
880.1	810.1	59.70	53.33	50.56
890.1	820.1	58.87	54.00	51.40
900.1	830.1	56.43	56.08	54.33
910.1	840.1	52.05	53.72	56.03
920.1	850.1	52.99	53.75	53.03
930.1	860.1	52.94	53.58	52.94
940.1	870.1	51.32	52.58	52.01
950.1	880.1	49.96	51.12	51.77
960.1	890.1	46.70	47.40	48.57
970.1	900.1	47.18	47.60	47.94
980.1	910.1	46.99	47.24	47.06
990.1	920.1	46.39	46.67	46.56
1000.1	930.1	46.62	46.63	46.33



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IF/RF MICROWAVE COMPONENTS

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=850.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+17	+19		+15	+17	+19		+15	+17	+19
600.1	530.1	2.14	2.18	2.21	530.1	11.83	11.87	11.79	10.1	1.03	1.05	1.06
625.1	555.1	2.22	2.25	2.28	555.1	10.23	10.26	10.20	20.1	1.05	1.07	1.10
650.1	580.1	2.29	2.33	2.36	580.1	8.74	8.76	8.69	30.1	1.08	1.09	1.11
675.1	605.1	2.37	2.41	2.44	605.1	7.38	7.40	7.36	40.1	1.07	1.08	1.09
700.1	630.1	2.43	2.47	2.50	630.1	6.15	6.17	6.14	50.1	1.05	1.05	1.07
705.1	635.1	2.44	2.47	2.51	635.1	5.94	5.96	5.92	60.1	1.06	1.07	1.09
710.1	640.1	2.44	2.49	2.52	640.1	5.71	5.74	5.70	70.1	1.09	1.11	1.12
715.1	645.1	2.46	2.50	2.53	645.1	5.50	5.52	5.49	80.1	1.12	1.12	1.13
720.1	650.1	2.46	2.51	2.55	650.1	5.30	5.32	5.29	90.1	1.10	1.10	1.10
725.1	655.1	2.47	2.51	2.55	655.1	5.10	5.12	5.09	100.1	1.07	1.07	1.08
730.1	660.1	2.47	2.52	2.56	660.1	4.91	4.93	4.90	110.1	1.09	1.10	1.12
735.1	665.1	2.47	2.52	2.56	665.1	4.73	4.74	4.71	120.1	1.14	1.15	1.16
740.1	670.1	2.48	2.52	2.56	670.1	4.56	4.57	4.54	130.1	1.15	1.15	1.16
750.1	680.1	2.47	2.52	2.56	680.1	4.25	4.26	4.23	140.1	1.13	1.13	1.14
760.1	690.1	2.47	2.52	2.56	690.1	3.96	3.98	3.95	150.1	1.13	1.13	1.15
770.1	700.1	2.47	2.52	2.56	700.1	3.71	3.72	3.70	160.1	1.17	1.18	1.19
780.1	710.1	2.46	2.51	2.55	710.1	3.49	3.51	3.41	170.1	1.19	1.20	1.20
790.1	720.1	2.46	2.50	2.55	720.1	3.31	3.33	3.22	180.1	1.17	1.17	1.18
795.1	725.1	2.45	2.50	2.54	725.1	3.24	3.25	3.14	190.1	1.14	1.14	1.15
800.1	730.1	2.44	2.49	2.53	730.1	3.17	3.19	3.07	200.1	1.16	1.17	1.18
810.1	740.1	2.43	2.48	2.51	740.1	3.07	3.09	2.96	210.1	1.20	1.21	1.22
820.1	750.1	2.43	2.47	2.50	750.1	3.00	3.02	2.87	220.1	1.21	1.22	1.23
830.1	760.1	2.41	2.45	2.48	760.1	2.97	2.99	2.85	230.1	1.19	1.20	1.20
840.1	770.1	2.40	2.43	2.46	770.1	2.98	3.00	2.87	240.1	1.19	1.20	1.21
850.1	780.1	2.38	2.42	2.44	780.1	3.01	3.04	2.94	250.1	1.24	1.25	1.26
860.1	790.1	2.39	2.41	2.44	790.1	3.08	3.11	3.03	260.1	1.27	1.27	1.28
870.1	800.1	2.39	2.42	2.44	800.1	3.17	3.20	3.13	270.1	1.24	1.25	1.25
880.1	810.1	2.40	2.43	2.46	810.1	3.29	3.32	3.26	280.1	1.20	1.21	1.21
890.1	820.1	2.41	2.44	2.46	820.1	3.43	3.46	3.41	290.1	1.21	1.23	1.24
900.1	830.1	2.41	2.44	2.46	830.1	3.58	3.62	3.58	300.1	1.26	1.27	1.29
910.1	840.1	2.41	2.44	2.46	840.1	3.76	3.80	3.82	310.1	1.27	1.28	1.30
920.1	850.1	2.41	2.43	2.46	850.1	3.93	3.98	3.99	320.1	1.25	1.26	1.27
930.1	860.1	2.41	2.43	2.46	860.1	4.12	4.17	4.19	330.1	1.24	1.25	1.27
940.1	870.1	2.41	2.44	2.46	870.1	4.32	4.36	4.38	340.1	1.28	1.29	1.31
950.1	880.1	2.41	2.44	2.46	880.1	4.52	4.56	4.58	350.1	1.31	1.32	1.34
960.1	890.1	2.41	2.44	2.47	890.1	4.71	4.76	4.78	360.1	1.29	1.30	1.32
970.1	900.1	2.41	2.45	2.47	900.1	4.90	4.95	4.96	370.1	1.25	1.26	1.28
980.1	910.1	2.41	2.45	2.48	910.1	5.10	5.15	5.16	380.1	1.26	1.28	1.30
990.1	920.1	2.41	2.45	2.48	920.1	5.30	5.35	5.36	390.1	1.31	1.33	1.35
1000.1	930.1	2.40	2.44	2.47	930.1	5.49	5.55	5.56	400.1	1.32	1.34	1.36



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	---	---	-1.26	2.40	12.11	5.53	31.43	14.70	29.75	22.78	16.21	25.06
1	---	32.25	---	42.04	20.83	41.51	34.47	42.03	66.71	52.37	49.45	50.60
2	116.43	58.27	58.13	60.10	56.72	61.79	62.93	69.12	81.64	77.77	82.30	73.94
3	126.03	75.94	86.97	77.18	80.66	75.44	89.26	83.66	87.40	99.35	100.51	95.98
4	121.11	98.84	83.73	88.53	84.55	84.25	81.74	91.73	88.67	92.58	98.48	100.79
5	123.19	99.64	103.30	106.96	107.88	105.98	105.97	102.15	99.98	104.33	103.12	100.74
6	125.53	103.22	102.69	102.90	101.14	102.34	102.88	103.79	110.25	104.12	103.94	106.02
7	122.32	102.06	102.07	107.71	101.61	100.81	103.93	103.39	108.48	104.96	104.23	101.01
8	120.72	95.63	103.00	100.31	100.11	102.82	101.33	102.79	103.75	108.91	103.49	103.50
9	120.48	99.02	103.08	103.99	104.23	101.99	105.49	102.86	101.71	105.07	100.98	104.46
10	119.21	100.74	104.81	101.62	100.41	99.70	100.67	109.03	105.10	103.82	106.93	103.69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 920.10 MHz; -5 dBm.
 LO IN: 850.10 MHz; +17.00 dBm
 IF OUT: 70 MHz; -12.04 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	---	---	8.66	12.41	21.89	15.51	41.78	24.45	39.76	32.23	26.56	35.34
1	---	33.35	---	40.47	20.65	43.50	34.80	41.99	65.40	53.14	49.74	51.64
2	97.06	53.50	56.76	55.56	56.59	57.53	60.89	64.63	78.04	67.27	78.79	66.25
3	115.98	58.48	66.09	58.84	61.14	58.26	70.43	64.82	68.49	81.18	91.02	83.03
4	125.51	88.20	70.67	73.02	70.51	68.86	68.82	76.00	75.42	76.33	94.65	104.23
5	121.81	103.68	100.29	80.95	86.88	83.69	81.87	79.64	87.43	87.46	86.23	101.50
6	120.40	103.91	105.43	106.18	81.27	84.45	81.85	79.08	77.96	85.57	83.55	84.70
7	117.24	106.28	109.15	109.59	110.76	107.22	105.60	107.53	100.30	112.51	104.70	111.75
8	121.45	107.32	111.04	111.67	108.19	111.84	93.29	96.28	92.15	89.85	88.26	93.56
9	121.30	110.92	115.56	105.52	107.56	109.96	112.38	108.99	103.64	106.85	96.58	107.04
10	117.44	108.77	112.43	110.70	109.03	112.48	112.15	110.41	107.47	108.77	104.23	101.53
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 920.10 MHz; 5 dBm.
 LO IN: 850.10 MHz; +17.00 dBm
 IF OUT: 70 MHz; -2.09 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 represents the Harmonics level of the RF Input Signal to the mixer