

I&Q

DEMODULATORS



LEADLESS SURFACE-MOUNT MODELS

FREQUENCY (MHz)			LO LEVEL (dBm)	CONVERSION LOSS♦ (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Degrees)	ISOLATION (dB)		VSWR	INPUT 1 dB COMP. PT. (dBm)	INPUT IP ₂ (dBm)	PACKAGE	PIN-OUT (See Below)	MODEL
LO	RF	IF					LO/RF MIN	LO/IF MIN						
19-21	10-30	DC-10	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102S	1	QMS-201
28.5-31.5	15-45	DC-15	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102S	1	QMS-202
38-42	20-60	DC-20	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102S	1	QMS-203
52-88	52-88	DC-35	+10	7.0	0.2/0.5	2.0/4.0	40	35	1.5:1	+3	+15	102S	1	QMS-210
57-63	30-90	DC-30	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102S	1	QMS-204
67.5-73.5	35-105	DC-35	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102S	1	QMS-205
80-160	80-160	DC-40	+10	8.0	0.6/1.0	1.0/3.0	35	30	1.5:1	+3	+15	102S	1	QMS-206
100-200	100-200	DC-50	+10	8.0	0.6/1.0	1.0/3.0	35	30	1.5:1	+3	+15	102S	1	QMS-207
810-830	810-830	DC-50	+10	8.0	0.6/1.0	1.0/4.0	35	30	1.8:1	+3	+15	102S	1	QMS-214
850-960	850-960	DC-100	+10	8.0	0.8/1.3	3.0/6.0	35	30	1.8:1	+3	+15	102S	1	QMS-213
869-894	869-894	DC-50	+10	8.0	0.6/1.0	1.0/4.0	35	30	1.8:1	+3	+15	102S	1	QMS-224
935-960	935-960	DC-50	+10	8.0	0.6/1.0	1.0/4.0	35	30	1.8:1	+3	+15	102S	1	QMS-234
1805-1880	1805-1880	DC-50	+10	8.0	0.8/1.2	2.0/6.0	25	20	2.0:1	+3	+15	102S	1	QMS-244



LEADED SURFACE-MOUNT MODELS

FREQUENCY (MHz)			LO LEVEL (dBm)	CONVERSION LOSS♦ (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Degrees)	ISOLATION (dB)		VSWR	INPUT 1 dB COMP. PT. (dBm)	INPUT IP ₂ (dBm)	PACKAGE	PIN-OUT (See Below)	MODEL
LO	RF	IF					LO/RF MIN	LO/IF MIN						
19-21	10-30	DC-10	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102L	1	QML-201
28.5-31.5	15-45	DC-15	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102L	1	QML-202
38-42	20-60	DC-20	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102L	1	QML-203
57-63	30-90	DC-30	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102L	1	QML-204
67.5-73.5	35-105	DC-35	+10	7.0	0.2/0.4	1.0/2.0	40	35	1.5:1	+3	+15	102L	1	QML-205
80-160	80-160	DC-40	+10	8.0	0.6/1.0	1.0/3.0	35	30	1.5:1	+3	+15	102L	1	QML-206
100-200	100-200	DC-50	+10	8.0	0.6/1.0	1.0/3.0	35	30	1.5:1	+3	+15	102L	1	QML-207
810-830	810-830	DC-50	+10	8.0	0.6/1.0	1.0/4.0	35	30	1.8:1	+3	+15	102L	1	QML-214
869-894	869-894	DC-50	+10	8.0	0.6/1.0	1.0/4.0	35	30	1.8:1	+3	+15	102L	1	QML-224
935-960	935-960	DC-50	+10	8.0	0.6/1.0	1.0/4.0	35	30	1.8:1	+3	+15	102L	1	QML-234
1805-1880	1805-1880	DC-50	+10	8.0	0.8/1.2	2.0/6.0	25	20	2.0:1	+3	+15	102L	1	QML-244

♦ Conversion loss = RF input power (dBm) minus IF1 and IF2 power (dBm).

Notes:

IF₁ is +90° ref to IF₂ when RF < LO frequency.

Nominal impedance = 50 ohms.

Maximum RF input power without damage 200 mW.

PIN-OUT TABLE

	RF	LO	IF ₁	IF ₂	CASE GND
#1	1	8	3	4	All Other

For pin location and package outline drawings, see back pages.