

# I&Q Demodulator

# JCIQ-176D

## Typical Performance Data

FREQUENCY LO=140MHz (MHz)		CONVERSION LOSS (dB)	AMPLITUDE UNBALANCE (dB)		PHASE UNBALANCE (deg.)		FREQUENCY (MHz)		DC OFFSET (mV)
RF	I/Q		I/Q	I/Q	LO	RF			
140.30	0.30	5.67	0.07	90.71	96.00	96.10	0.18		
140.54	0.54	5.61	0.08	90.55	100.00	100.10	0.19		
140.77	0.77	5.56	0.07	90.69	104.00	104.10	0.19		
141.01	1.01	5.55	0.09	90.71	107.79	107.89	0.19		
141.24	1.24	5.57	0.08	90.68	115.37	115.47	0.19		
141.48	1.48	5.55	0.09	90.75	119.16	119.26	0.19		
141.71	1.71	5.55	0.10	90.72	122.95	123.05	0.19		
141.95	1.95	5.54	0.11	90.95	126.74	126.84	0.20		
142.18	2.18	5.55	0.10	91.00	134.32	134.42	0.19		
142.42	2.42	5.54	0.12	90.99	138.11	138.21	0.19		
142.78	2.78	5.55	0.10	91.18	141.90	142.00	0.19		
143.03	3.03	5.55	0.07	91.27	145.68	145.78	0.21		
143.27	3.27	5.55	0.04	91.29	153.26	153.36	0.24		
143.52	3.52	5.56	0.04	91.11	157.05	157.15	0.25		
143.77	3.77	5.56	0.03	91.16	160.84	160.94	0.25		
144.01	4.01	5.55	0.03	90.87	164.63	164.73	0.26		
144.26	4.26	5.56	0.03	90.83	172.21	172.31	0.25		
144.51	4.51	5.56	0.05	90.78	176.00	176.10	0.26		
144.75	4.75	5.55	0.10	90.81	180.00	180.10	0.25		
145.00	5.00	5.56	0.12	91.09	184.00	184.10	0.26		

RF Power=-5 dBm, LO Power=+10 dBm

Conversion Loss (dB) = RF Input Power (dBm) - I/Q Output Power (dBm)