Softrock Lite II RX Test Sheet

Tested By: _____

Test	Units	Expected	Measured
Power Supply			
Current Draw			
With 1 kΩ limiting resistor	mA	< 9	_____
Without 1 kΩ limiting resistor	mA	$3 - 6$	_____
Voltage			
R11 hairpin (5 V_{DC} point)	V_{DC}	5	_____
D1 cathode (square pad)	V_{DC}	$11 - 13$	_____
Local Oscillator			
Current Draw			
With 1 kΩ limiting resistor	mA	< 9	_____
Without 1 kΩ limiting resistor	mA	< 20	_____
Voltage			
R11 hairpin	V_{DC}	$4.5 - 5$	_____
R15 hairpin	V_{DC}	$<$ R11 hairpin	_____
R12 hairpin	V_{DC}	< 2.5	_____
R17 hairpin	V_{DC}	> 2.0	_____
Output			
LO Output testpoint	MHz	18.73	_____
Dividers			
Current Draw			
With 100Ω limiting resistor	mA	< 20	_____
Without 100Ω limiting resistor	mA	< 25	_____
Voltage			
Pin 1	V_{DC}	5	_____
Pin 2	V_{DC}	2.5	_____
Pin 3	V_{DC}	$3.5 - 4.5$	_____
Pin 4	V_{DC}	5	_____

Pin 6	V_{DC}	2.5	_____
Pin 7	V_{DC}	0	_____
Pin 8	V_{DC}	2.5	_____
Pin 9	V_{DC}	2.5	_____
Pin 10	V_{DC}	5	_____
Pin 11	V_{DC}	$3.5 - 4.5$	_____
Pin 12	V_{DC}	2.5	_____
Pin 13	V_{DC}	5	_____
Pin 14	V_{DC}	5	_____
Output			
QSD clk0	MHz	4.6825	_____
QSD clk1	MHz	4.6825	_____
QSD clk0	V_{pk-pk}	5	_____
QSD clk1	V_{pk-pk}	5	_____
QSD clk0 $\rightarrow$ clk1	$^\circ$	90	_____

Op Amps

Current Draw			
With 100Ω limiting resistor	mA	< 30	_____
Without 100Ω limiting resistor	mA	< 30	_____
Voltage			
Pin 1	V_{DC}	2.5	_____
Pin 2	V_{DC}	2.5	_____
Pin 3	V_{DC}	2.5	_____
Pin 4	V_{DC}	0.0	_____
Pin 5	V_{DC}	2.5	_____
Pin 6	V_{DC}	2.5	_____
Pin 7	V_{DC}	2.5	_____
Pin 8	V_{DC}	5.0	_____
DC Gain			
R7 unbridged	V_{DC}	2.5	_____
R8 unbridged	V_{DC}	2.5	_____

R7 bridged	V_{DC}	3.75	_____
R8 bridged	V_{DC}	3.75	_____
Bandpass Filter (BPF)			
Continuity			
Point P to point P	Ω	0	_____
Point S to point S	Ω	0	_____
Voltage			
R1 hairpin	V_{DC}	2.5	_____
R2 hairpin	V_{DC}	2.5	_____
Resistance			
R1 hairpin	Ω	800	_____
R2 hairpin	Ω	800	_____
Phase			
R1 $\rightarrow$ R2	$^\circ$	180	_____
Mixer (QSD)			
Current Draw			
With 100Ω limiting resistor	mA	< 30	_____
Without 100Ω limiting resistor	mA	< 30	_____
Voltage			
Pin 1	V_{DC}	0.0	_____
Pin 2	V_{DC}	2.5	_____
Pin 3	V_{DC}	$2.3 - 2.5$	_____
Pin 6	V_{DC}	$2.3 - 2.5$	_____
Pin 7	V_{DC}	$2.3 - 2.5$	_____
Pin 8	V_{DC}	0.0	_____
Pin 9	V_{DC}	$2.3 - 2.5$	_____
Pin 11	V_{DC}	$2.3 - 2.5$	_____
Pin 12	V_{DC}	$2.3 - 2.5$	_____
Pin 14	V_{DC}	2.5	_____
Pin 15	V_{DC}	0.0	_____
Pin 16	V_{DC}	5.0	_____