

8.5 TO 9.5 GHz IMAGE REJECTION DOWNCONVERTER

**MODELS: IRJ085095U30A, IRJ085095U60A, IRJ085095U120A
AND IRJ085095U150A**

FEATURES

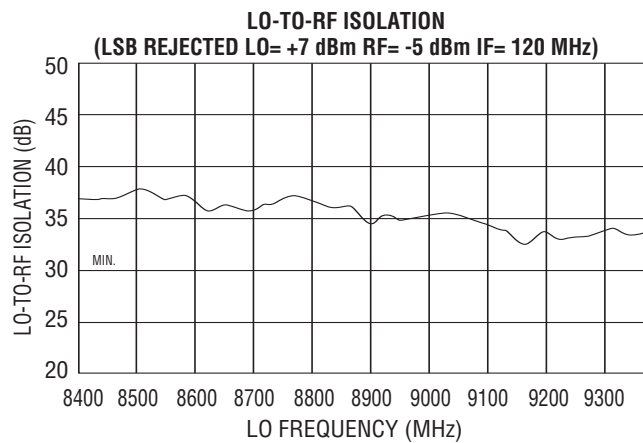
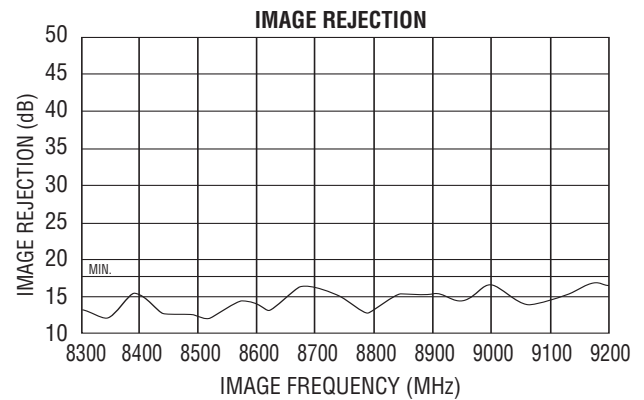
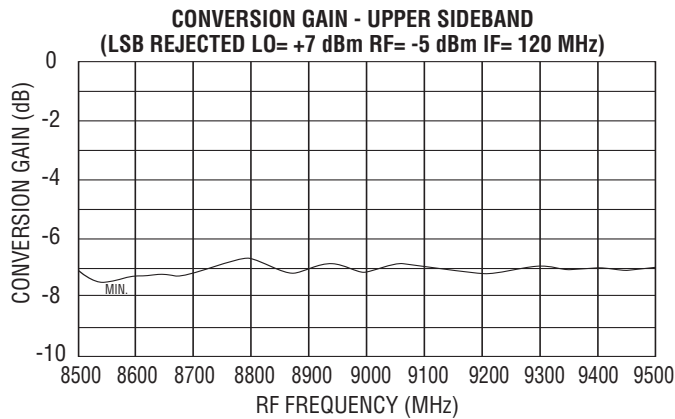
- RF coverage 8.5 to 9.5 GHz
- LO coverage 8.38 to 9.38 GHz
- IF operation 20 to 200 MHz
- Conversion loss 7 dB typical
- Image rejection 25 dB typical



ELECTRICAL SPECIFICATIONS

INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	8.5		9.5
RF VSWR		Ratio		2:1	
LO frequency range		GHz	8.38		9.38
LO power range		dBm	7		9
LO VSWR		Ratio		2:1	
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
Conversion loss	@ Mid-band IF	dB		7	8
Image rejection	@ Mid-band IF	dB	18	25	
LO-to-RF isolation		dB	30	35	
LO-to-IF isolation		dB	25		
Output power at 1 dB compression		dBm		-6	
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
IF frequency range	IRJ085095U30A	MHz	20		40
	IRJ085095U60A	MHz	40		60
	IRJ085095U120A	MHz	80		160
	IRJ085095U150A	MHz	100		200
IF VSWR (IF = -10 dBm)		Ratio		1.5:1	

IRJ085095U120A TYPICAL TEST DATA

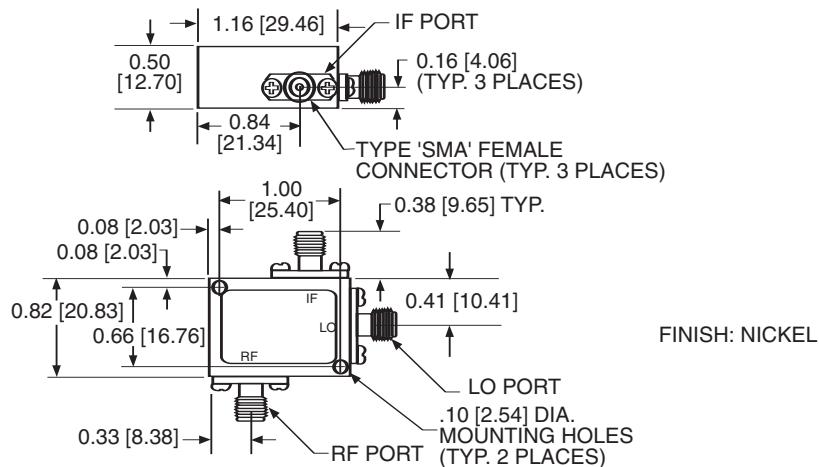


MAXIMUM RATINGS

Specification temperature +25°C
 Operating temperature -55 to +85°C
 Storage temperature -65 to +95°C

NOTE: Test data supplied at 25°C; conversion loss, LO-to-RF isolation and image rejection.

OUTLINE DRAWING



NOTE: All dimensions shown in brackets [] are in millimeters.

