



MICROWAVE & RF PRODUCTS

MODEL NO.: IR8596/60-85

8.5 to 9.6 GHz

25 dB RF- IF Gain

Ultra Low Noise Image Reject Mixer

- 60 ± 10 MHz IF Bandwidth
- Image Rejection: 20 dB Minimum
- 25 dB RF to IF Gain (Optional Adjustable)
- Compact Size
- Military Environmental Application



The Model IR8596/60-85 is an ultra low noise image reject mixer amplifier. Custom operating frequencies, package shapes, mounting configurations and attenuation performance options are available. This is designed for a rugged military environmental application and operates over the temperature range of -55°C to +95°C.

PARAMETERS	SPECIFICATIONS					
	FREQUENCY	TYP.	MIN.	MAX.	UNIT	CONDITONS
RF Input	8.5 TO 9.6				GHz	
LO Drive	8.5 TO 9.6				GHz	
IF Output			50	70	MHz	
RF-IF Gain		25	20		dB	
RF-IF Gain Matching				±2.0	dB	Optional
Phase Matching			10	10	DEG	Optional
Amplitude Flatness	50 TO 70 MHz	±0.2			dB	
Noise Figure		6.0		7.0	dB	
LSB Image Rejection		25	20		dB	
LO-RF Isolation		23	20		dB	
LO-IF Isolation		22	20		dB	
VSWR				2.3:1		All Ports
1 dB Compression Pt.		+4		0	dBm	Nominal
AGC Dynamic Range			20		dB	Optional
AGC Control Voltage for 20 dB Gain Reduction			-3	0	V	Optional
LO Power			+5	+7	dBm	
DC Power Voltage		+12			V	
DC Power Current		50			mA	



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