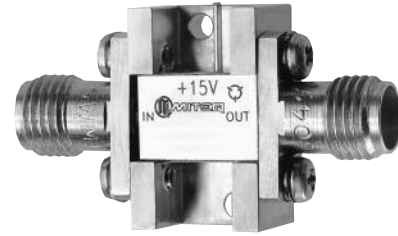


2 TO 8 GHz LOW-NOISE AMPLIFIERS

FEATURES

- Ultralow noise figures from 0.8 dB
- Excellent phase and group delay
- Miniaturized for coax or microstrip interface
- Available hermetically sealed
- Military temperature range applications



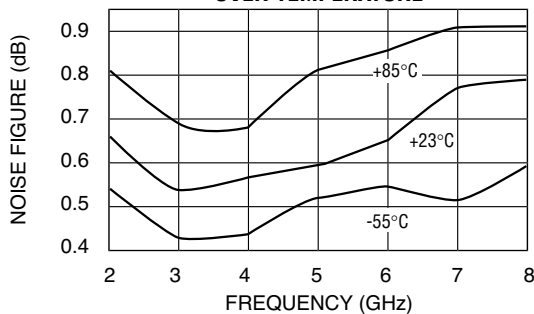
JS2-02000800-08-0A

SPECIFICATIONS

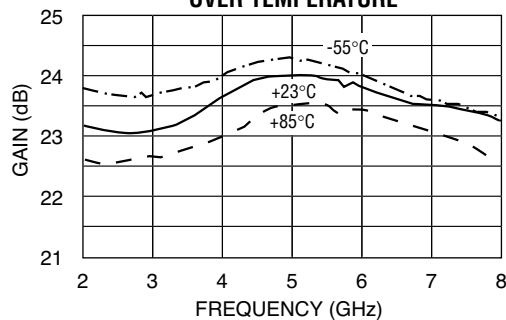
PARAMETERS *	UNITS	JS2-02000800-08-0A	JS2-02000800-12-10A
Frequency	GHz	2-8	2-8
Gain	dB, min.	22	20
Gain flatness	dB, max.	±1.25	±1.25
Noise figure	dB, max.	0.8	1.2
Input/output VSWR	Max.	2:1	2:1
Phase linearity			
Per GHz over complete band	Deg., typ.	±8	±8
Over full band	Deg., typ.	±10	±10
Unit-to-unit phase tracking	Deg., typ.	±5	±5
Group delay	pS, max.	±30	30
Output power at 1 dB compression	dBm, min.	0	10
Output IP ³	dBm, typ.	10	20
Output IP ²	dBm, typ.	20	28
Input power (CW max., survival)	dBm, min.	20	20
DC power supply, 12 to 20 volts	mA, typ.	125	175

PLEASE NOTE: Customized combinations of the above-noted electrical specifications are available. Cryogenic versions are available.
 * Electrical parameters are specified at 23°C.

**NOISE FIGURE vs. FREQUENCY
OVER TEMPERATURE**



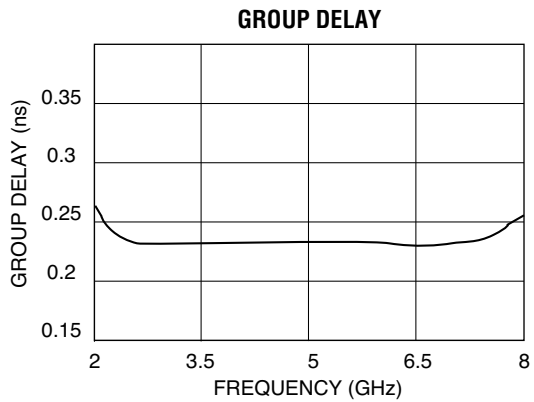
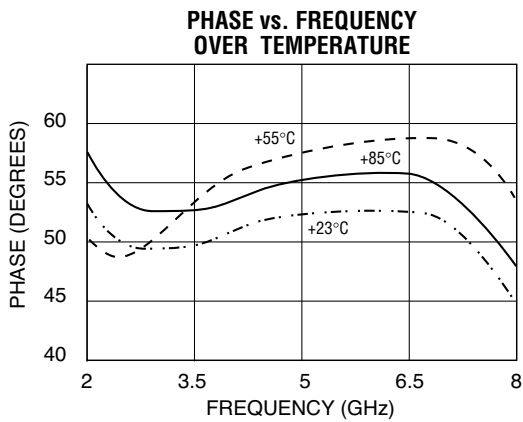
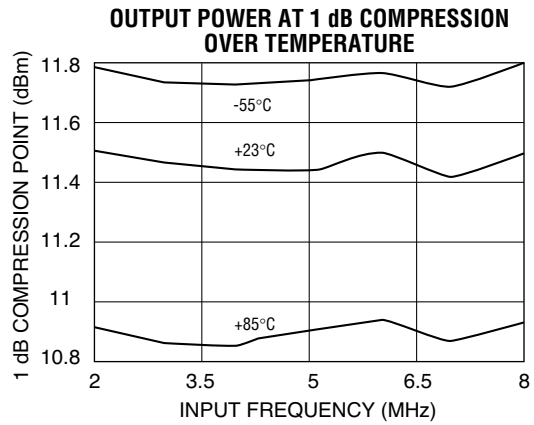
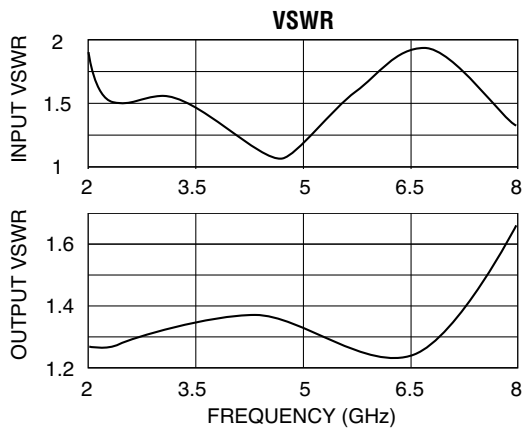
**GAIN vs. FREQUENCY
OVER TEMPERATURE**



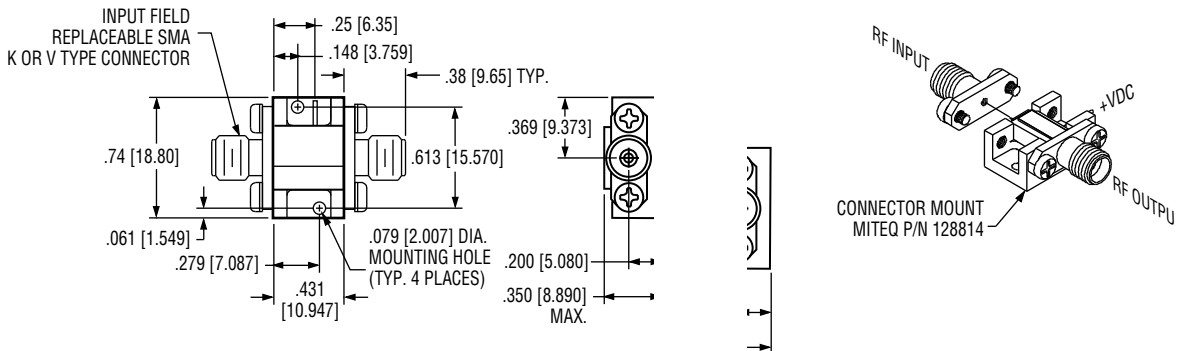
Typical temperature coefficients:

Gain vs. temperature dB per °C: 0.02
 Noise figure vs. temperature dB per °C: 0.02
 Phase vs. temperature dB per °C: 0.1

2 TO 8 GHz TYPICAL DATA



OUTLINE DRAWING



NOTE: DIMENSIONS SHOWN IN BRACKETS [] ARE IN MILLIMETERS.