

6 TO 18 GHz LOW-NOISE AMPLIFIERS

FEATURES

- Ultralow noise figures from 1.45 dB
- Phase and group delay linearized
- Miniaturized for coax or microstrip interface
- Hermetically sealed chassis
- Military temperature range applications



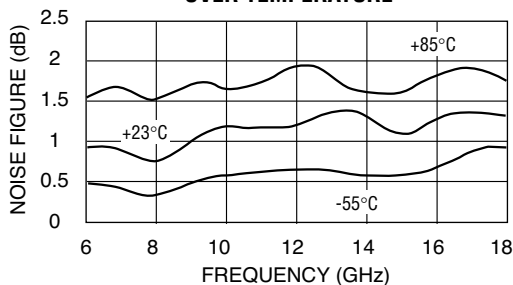
SPECIFICATIONS

PARAMETERS *	UNITS	JS4-06001800-145-10A	JS4-06001800-16-10A	JS4-06001800-20-10A
Frequency	GHz	6–18	6–18	6–18
Gain	dB, min.	34	34	34
Gain flatness	dB, max.	±2	±2	±2
Noise figure	dB, max.	1.45	1.6	2
Input/output VSWR	Max.	2:1	2:1	2:1
Phase linearity				
Per GHz over 8–16 GHz	Deg., max.	±5	±5	±5
Over full band, 6–18 GHz	Deg., max.	±15	±15	±15
Unit-to-unit phase tracking	Deg., typ.	±10	±10	±10
Group delay				
Per GHz over 8–16 GHz	pS, max.	10	10	10
Over full band, 6–18 GHz	pS, max.	50	50	50
Output power at 1 dB compression	dBm, min.	10	10	10
Output IP ³	dBm, min.	18	18	18
Output IP ²	dBm, min.	27	27	27
Output second harmonic IP	dBm, min.	28	28	28
Input power (CW max., survival)	dBm, min.	20	20	20
DC power supply, 12 to 24 volts	mA, typ.	200	200	200

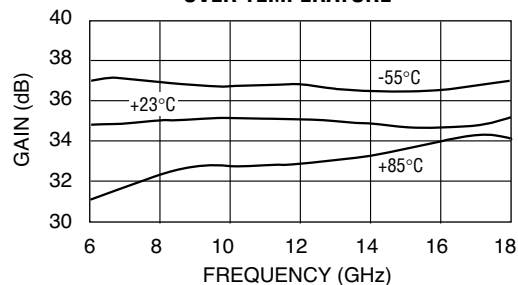
PLEASE NOTE: Customized combinations of the above-noted electrical specifications are available.

* Electrical parameters are specified at 23°C.

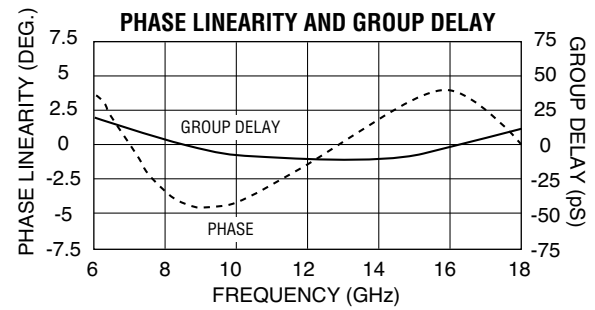
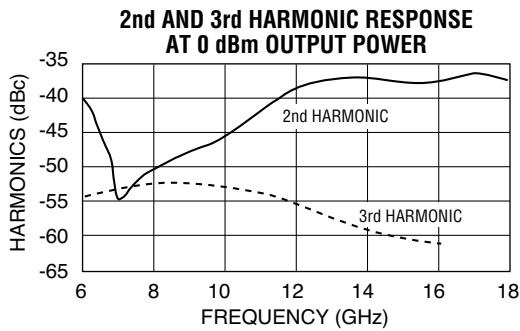
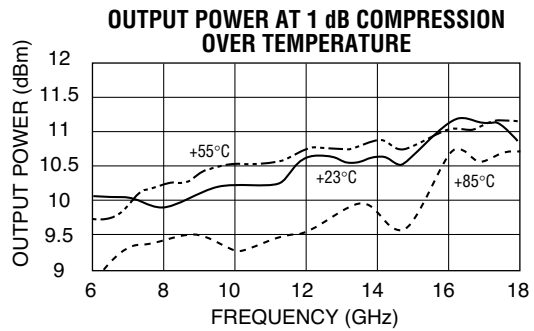
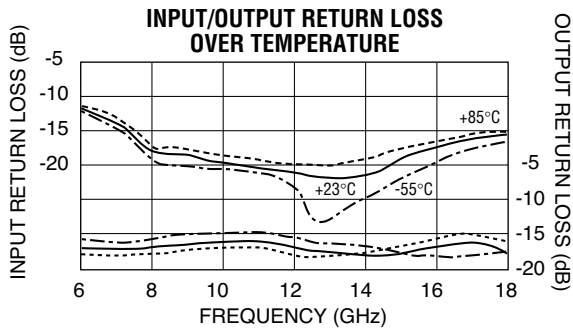
**NOISE FIGURE vs. FREQUENCY
OVER TEMPERATURE**



**GAIN vs. FREQUENCY
OVER TEMPERATURE**



6 TO 18 GHz TYPICAL DATA



OUTLINE DRAWINGS

