

CRYOGENIC APPLICATIONS

MITEQ's JS Series amplifiers offer the lowest noise figures available in the industry. As such, there is a great demand to utilize these in cryogenically cooled setups for research applications. The following listings cover a brief overview of some of the performances that can be expected from our amplifiers at liquid nitrogen (77 K) temperatures.



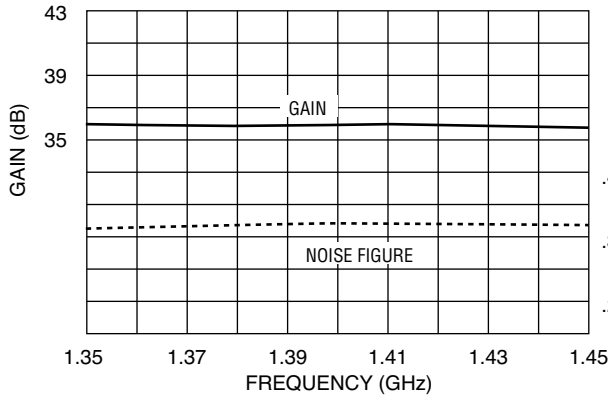
JSD4-180040-300-CR

MODEL NUMBER	FREQUENCY (GHz)	GAIN @ 23°C (dB, Min.)	GAIN VARIATION @ 23°C (±dB, Max.)	NOISE FIGURE @ 23°C (dB/K)	NOISE TEMP. @ 77 K (K, Max.)	VSWR IN/OUT @ 23°C	DC POWER @ +8 V (mA, Nom.)	OUTLINE DRAWING
CRYOGENICALLY COOLABLE LOW-NOISE AMPLIFIERS								
JS2-001020-050-CR	0.1-2	27	1	0.5/35	15	2:1	250	D
JS2-010020-035-CR	1-2	28	1	0.35/25	10	2:1	250	D
JS2-020040-040-CR	2-4	28	1	0.35/25	10	2:1	250	D
JS2-020080-080-CR	2-8	22	1	0.8/60	45	2:1	250	B
JS4-060180-150-CR	6-18	31	1.5	1.5/120	50	2:1	200	B
JSD4-180040-300-CR	18-40	24	2.5	3/290	170	2.5:1	200	B

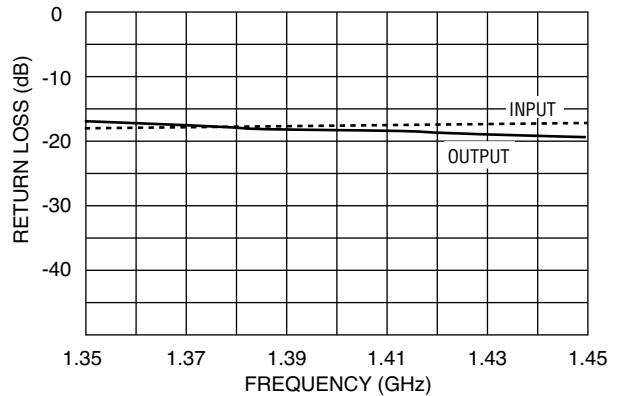
JS2-01350145-04-CR

AT 23°C

GAIN AND NOISE FIGURE

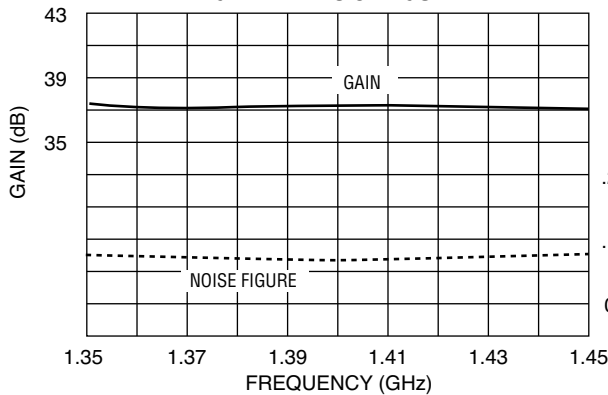


INPUT/OUTPUT RETURN LOSS



AT -196°C (77 K)

GAIN AND NOISE FIGURE



INPUT/OUTPUT RETURN LOSS

