

n-channel JFETs designed for . . .



J315

Performance Curves NZF
See Section 4

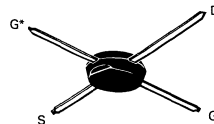
■ UHF Amplifiers

BENEFITS

- High Power Gain
10 dB Typical at 450 MHz
- Low Noise
3.4 dB Typical at 450 MHz
- Low Intermodulation Distortion
- Hermetic Stripline Package

ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain or Gate-Source Voltage	.....	-25 V
Gate Current	.....	10 mA
Total Device Dissipation (Derate 1.0 mW/°C)	.....	175 mW
Storage Temperature Range	.....	-65 to +200°C
Operating Temperature Range	.....	-65 to +200°C
Lead Temperature (1/16" from case for 10 seconds)	.....	.300°C



OD-84
See Section 5



Note: G* is back Gate contact.

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

		Characteristic	Min	Max	Unit	Test Conditions	
S T A T I C	1	IGSS Gate Reverse Current		-1	nA	VGS = -15 V, VDS = 0	
				-1	μA		150°C
	3	BVGSS Gate-Source Breakdown Voltage	-25		V	IG = -1 μA, VDS = 0	
	4	VGS(off) Gate-Source Cutoff Voltage	-1	-6		VDS = 10 V, ID = 1 nA	
	5	IDSS Saturation Drain Current (Note 1)	10	30	mA	VDS = 10 V, VGS = 0	
D Y N A M I C	6	gfs Common-Source Forward Transconductance	6000	10,000	μmho	VDS = 10 V, ID = 10 mA	
	7	gos Common-Source Output Conductance		200			f = 1 kHz
	8	Ciss Common-Source Input Capacitance		5	pF		f = 1 MHz
	9	Crss Common-Source Reverse Transfer Capacitance		1.2			

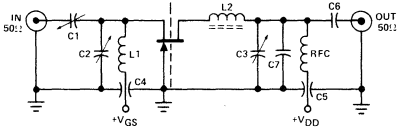
NOTE:

1. Pulse test duration = 2 ms.

NZF

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450 MHz Gain and Noise Figure Test Circuit for J315



- C1 2.5-11 ERIE N650
- C2, C3 8-10pF JFD HVVM010W
- C4, C5 1000pF AB FASC
- C6 100pF
- C7 10pF
- L1 17 ± hy 3/4" 28 AWG
- L2 100nhy, 2T 1/4 OD - 18 AWG
- RFC .33 hy Miller 9230-30