

X-Band Diode limiter

NJS6931

NJS6931 is designed for the high power limiter of radar system. It features a small size operable at any frequency between 9.30GHz and 9.50GHz.

This diode limiter consists of the two stage self biased limiter diodes and no external trigger and no bias is required.

--- MAXIMUM RATINGS ---

	Min	Max	Unit
Maximum handling power(peak)(Fig.1) . . . . .	-	4	kW
Continuous handling power(peak)(Fig.1) ..	-	2	kW
Ambient temperature . . . . .	-30	+90	°C
RF pulse width(Fig.2) . . . . .	-	-	µs

--- ELECTRICAL --- <at25deg.>

	Min	Max	Unit
V.S.W.R.(Note 1) . . . . .	-	1.5	-
Insertion loss(Note 1,3) . . . . .	-	1.5	dB
Flat leakage power(Note 2,3) . . . . .	-	150	mW
Spike leakage power(Note 2,3) . . . . .	-	600	mW
Recovery time(Note 2,3) . . . . .	-	0.5	µs

Note 1: Measured at power level 0.1mW CW

Note 2: Measured at power level 2kW, 1.0 microsec pulse width and 1,000 pps.

Note 3: Measured at frequency 9400 MHz

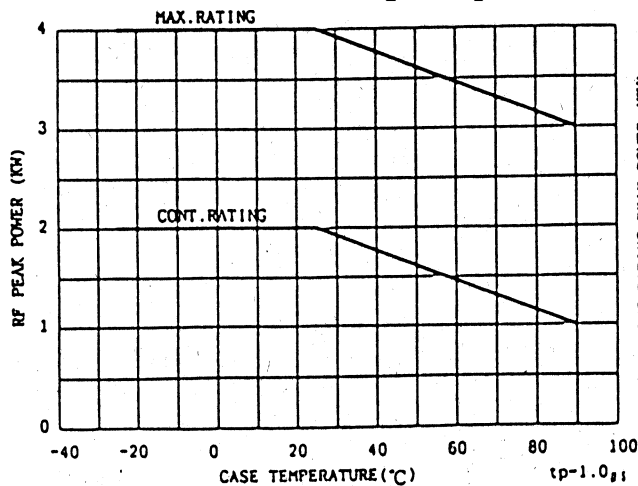


FIG. 1 RF INPUT POWER MAXIMUM AND CONTINUOUS RATINGS

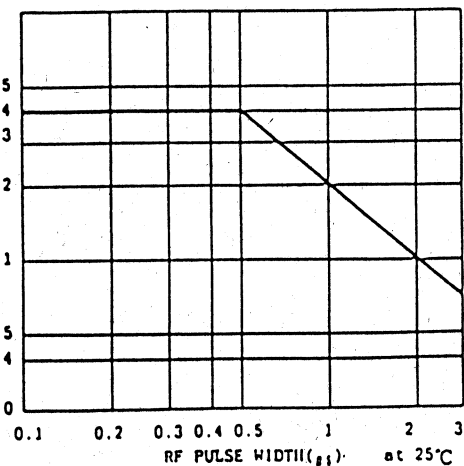


FIG. 2. PULSE WIDTH DEPENDENCE OF CONTINUOUS RATINGS

For further information on the use of the diode limiter, please contact New JRC. New JRC reserves the right to change the specification of goods without notice.

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## OUTLINE

Note: Dimensions are in mm

