



*New Japan Radio Co., Ltd.*

**Technical  
Information**

Rev.1

## **NJS6928A**

### **X-Band Diode Limiter**

NJS6928A 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 stages limiter diodes and no external trigger and no bias is required.

#### ----- MAXIMUM AND MINIMUM RATINGS -----

	Min	Max	Unit
Maximum handling power (Fig.1)	-	8	kW
Continuous handling power (Fig.1)	-	4	kW
Ambient temperature	-30	+90	°C
RF pulse width (Fig.2)	-	-	μs

#### ----- ELECTRICAL ----- <at 25°C>

	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.
2. Measured at power level 3kW, 1.0μs pulse width and 1000pps.
3. Measured at frequency 9400MHz.

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



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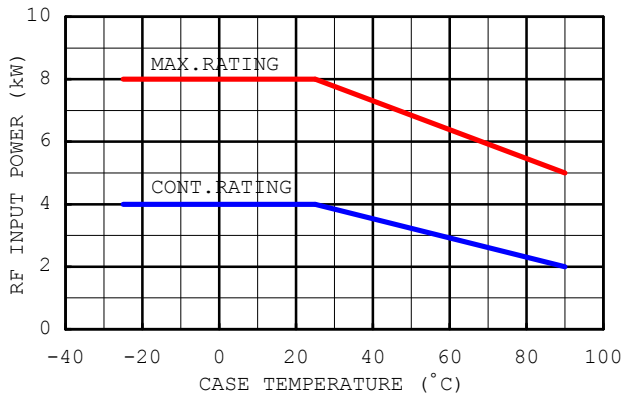


Fig.1 RF INPUT POWER MAXIMUM AND CONTINUOUS RATINGS.  $t_p=1.0\mu s$

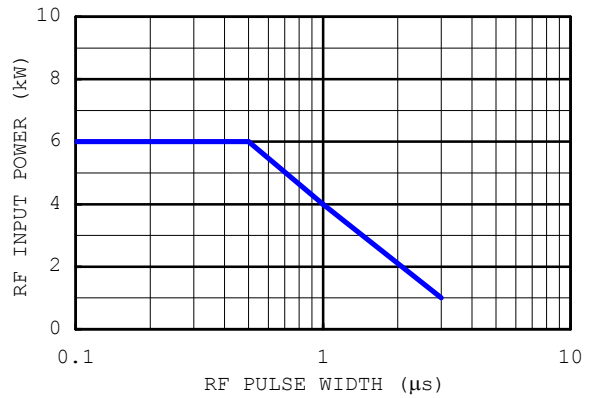


Fig.2 PULSE WIDTH DEPENDENCE OF CONTINUOUS RATINGS. at=25°C

### OUTLINE

Note: Dimensions are in mm

## NJS6928A

