

## X-Band TR Limiter

TL393 is a broad band primerless TR Limiter designed specifically for use with X-band radars. Consisting of a TR tube and the two stage diode limiter, TL393 is a small, rugged device which protects the mixer diode in the receiver from burning out as a result of RF power coming from other radars.

### --- MAXIMUM RATINGS ---

	Min	Max	Unit
Transmitter power (peak) .....	-	100	kW
Operating temperature .....	-30	+75	°C
Ambient temperature .....	-30	+90	°C

### --- ELECTRICAL (Ta=25deg.) ---

	Min	Max	Unit
Frequency range .....	9300	9500	MHz
V.S.W.R. (Note 1) .....	-	1.5	-
Insertion loss (Note 1,3) .....	-	2.0	dB
Flat leakage power (Note 2,3) .....	-	25	mW
Spike leakage power (Note 2,3) .....	-	400	mW
Recovery time (Note 3,4) .....	-	2	µs

#### Notes:

1. Measured at power level 0.1 mW CW.
2. Measured at 30kW, 1.0 µs pulse width and 1000 p.p.s.
3. Measured at frequency 9400 MHz.
4. Measured at 5kW, pulse width 1000 p.p.s.

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

# TL393

## OUTLINE

Note: Dimensions are in mm

