

S-Band TR Limiter

TL378A is a broad band primerless TR Limiter designed specifically for use with S-band radars. Consisting of a TR tube and a diode limiter, TL378A is a small, rugged device which protects the mixer diode in the receiver from burning out as a result of RF power coming from itself and other radars. Longer life is expected for TL378A, when used with circulator.

--- MAXIMUM RATINGS ---

	Min	Max	Unit
Transmitter power (peak)	-	100	kW
Operating temperature	-30	+80	°C
Ambient temperature	-30	+90	°C

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

	Min	Max	Unit
Frequency range	3000	3100	MHz
V.S.W.R. (Note 1)	-	1.5	-
Insertion loss (Note 1,3)	-	1.5	dB
Flat leakage power (Note 2,3)	-	20	mW
Spike leakage power (Note 2,3)	-	400	mW
Recovery time (Note 2,3)	-	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 3050 MHz.

TL378A

OUTLINE

Note: Dimensions are in mm

