

C-band TR Limiter

■ GENERAL DESCRIPTION

TL3999 is a C-band TR Limiter consisting of a TR tube and a diode limiter.



■ RADIOACTIVE MATERIAL

TR tube contains Americium241 (592kBq).

■ MAXIMUM AND MINIMUM RATINGS(ABSOLUTE)

These ratings cannot necessarily be used simultaneously and no individual ratings should be exceeded.

PARAMETERS	Min	Max	Units
Transmitter power (peak)	—	70	kW
Ambient temperature	-30	+90	°C
Pulse duration	—	2.0	μs
Duty cycle	—	0.001	—

■ ELECTRICAL CHARACTERISTICS

PARAMETERS	Min	Max	Units
Frequency range	5470	5620	MHz
VSWR (note 1, note 2)	—	1.4	—
Insertion loss (note 1, note 2)	—	1.2	dB
Flat leakage power (note 3, note 4)	—	50	mW
Spike leakage energy (note 3, note 4)	—	0.3	erg
Recovery time (note 3, note 5)	—	2.0	μs

Notes

- 1 . Measured at power level 0.1mW CW.
- 2 . Measured at 5470,5550 and 5620 MHz.
- 3 . Measured at 5550 MHz.
- 4 . Measured at p0=70kW, tp1=1.0μs, tp2=0.5μs and 1000pps.
- 5 . Measured at p0=70kW, tp=1.0μs and 1000pps.

■ OUTLINE TL3999

OUTLINE DIMENSIONS

(All dimensions without limits are nominal.)

Unit: mm

Sym- bol	DIMENSION	
	Min.	Max.
A	φ92.1	
B	6	
C	83.2	84.0
D	φ5.6	φ5.8
E	φ82.55	
F	φ5.9	
G	30	

