

## Released

# S-band TR Limiter Model No. TL378A

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Nisshinbo Micro Devices Inc.	Datasheet of TL378A		
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#### **■** GENERAL DESCRIPTION

TL378A is a broad band primer less 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 it and other radars. Longer life is expected for TL378A, when used with circulator.



#### ■ ELECTRICAL CHARACTERISTICS < at 25 °C >

PARAMETERS		MINIMUM	MAXIMUM	UNITS
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)		2.0	μs

Note 1: Measured at input power level 0.1mW CW.

Note 2: Measured at 30kW, 1.0µs pulse width and 1000 p.p.s.

Note 3: Measured at frequency 3050 MHz.

#### ■ ABSOLUTE MAXIMUM RATINGS

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

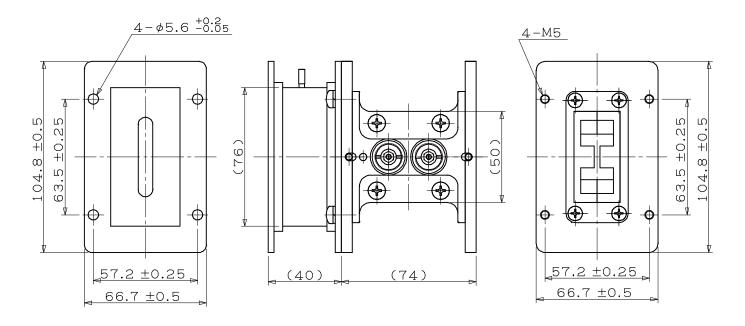
PARAMETERS	MINIMUM	MAXIMUM	UNITS
Transmitter power (Peak)	-	100	kW
Operating temperature	-30	+80	℃
Ambient temperature	-30	+90	℃

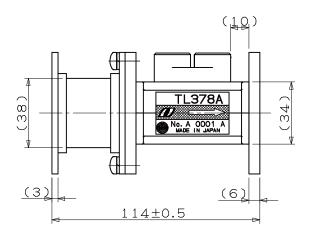
<sup>\*</sup>Above Specifications are subject to change without notice.



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### **■** OUTLINE





(Dimensions are expressed in "mm".)





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