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Released

X band Circulator

Model No. NJC3901B

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Microwave Division

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New Japan Radio Co., Ltd.
Microwave Division

Title:

Datasheet of NJC3901B

Reference No.:
DS-C3901B

Rev.:
04E

Sheet:
1/3

■ GENERAL DESCRIPTION

NJC3901B is a waveguide type circulator, designed for X band Marine Radar.



■ ABSOLUTE MAXIMUM RATINGS

PARAMETERS	Minimum	Maximum	Units
Frequency range	9.3	9.5	GHz
Peak power	-	30	kW
Average power	-	30	W
Storage temperature	-40	+100	°C
Operating temperature	-30	+70	°C
Pulse width	-	1.0	μs
Duty	-	0.001	-

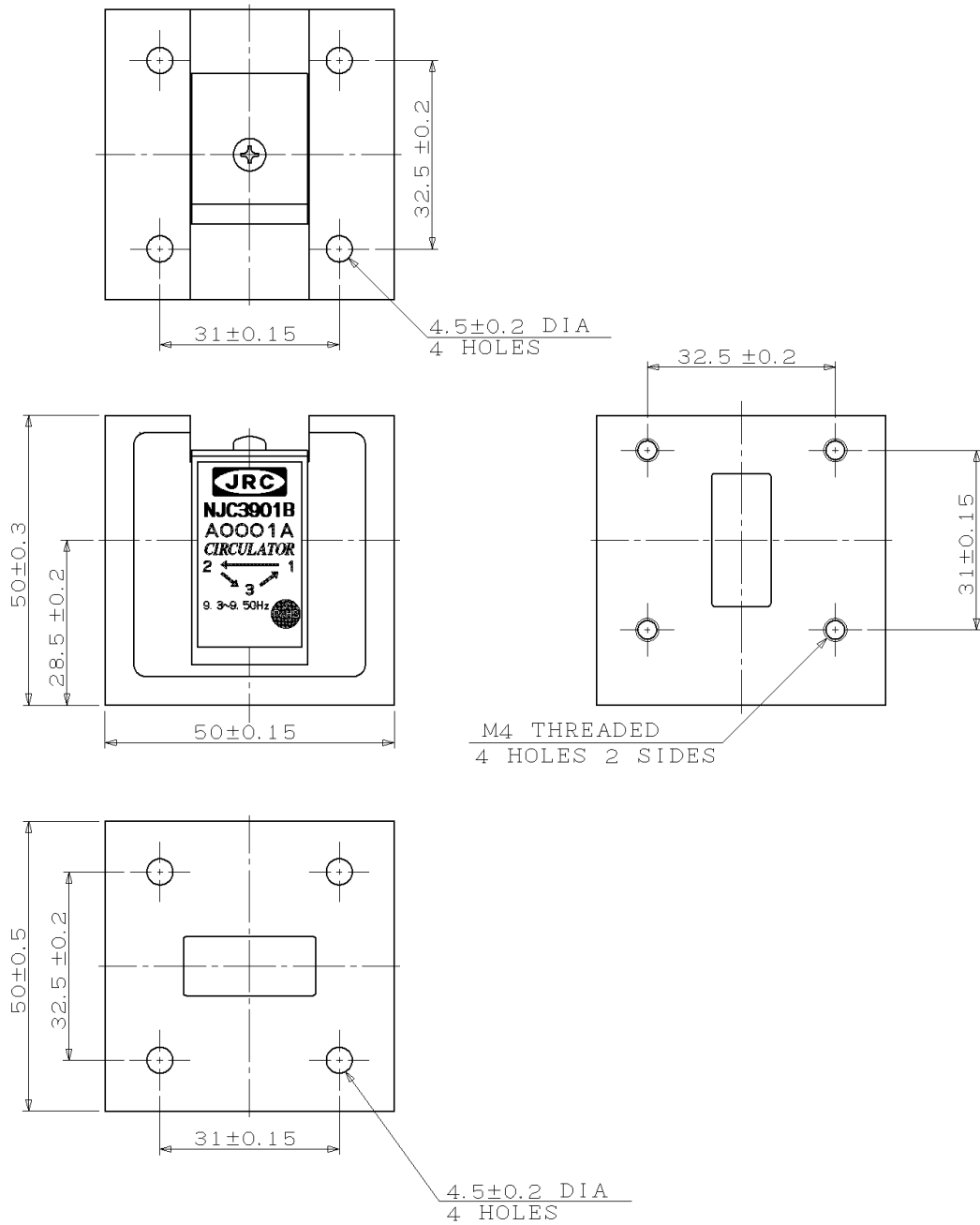
■ ELECTRICAL CHARACTERISTICS

PARAMETERS	Test conditions	Code	Limit		
			Min.	Max.	Units
High power input	port①→② f=9.4GHz; Po=30kW; tp=1.0μs; fp=1000pps;	-	-	30	kW
V.S.W.R.	port① f=9.3GHz	σ	-	1.2	-
	port② f=9.4GHz		-	1.2	-
	port③ f=9.5GHz		-	1.2	-
Insertion loss	port①→② f=9.3GHz	Li	-	0.5	dB
	port②→③ f=9.4GHz		-	0.5	dB
	port③→① f=9.5GHz		-	0.5	dB
Isolation	port②→① f=9.3GHz	-	25	-	dB
	port③→② f=9.4GHz		25	-	dB
	port①→③ f=9.5GHz		25	-	dB

Note: V.S.W.R., Insertion loss, and Isolation are measured under the conditions, frequency 8.8 to 10.8GHz input signal 0.1mW.

* Above Specifications are subject to change without notice.

■ OUTLINE



(Dimensions are expressed in "mm".)

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