

Date

May 29, 2018

Released

X band Circulator

Model No. NJC3901D

Copyright© 2018
New Japan Radio Co., Ltd.
Microwave Division

-Notice of Proprietary Information-

This document and its contents are proprietary to New Japan Radio Co., Ltd.
This publication and its contents may not be reproduced or distributed for any other purpose
without the written permission of New Japan Radio Co., Ltd.
Those specifications listed in this document are subject to change at any time, without notice.

New Japan Radio Co., Ltd.
Microwave Division

Title:

Datasheet of NJC3901D

Reference No.:

DS-C3901D

Rev.:

04E

Sheet:

1/3

■ GENERAL DESCRIPTION

NJC3901D 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	-	5	kW
Average power	-	5	W
Storage temperature	-40	+100	°C
Operating temperature	-30	+70	°C
Pulse width	-	1.0	μs
Duty	-	0.001	-

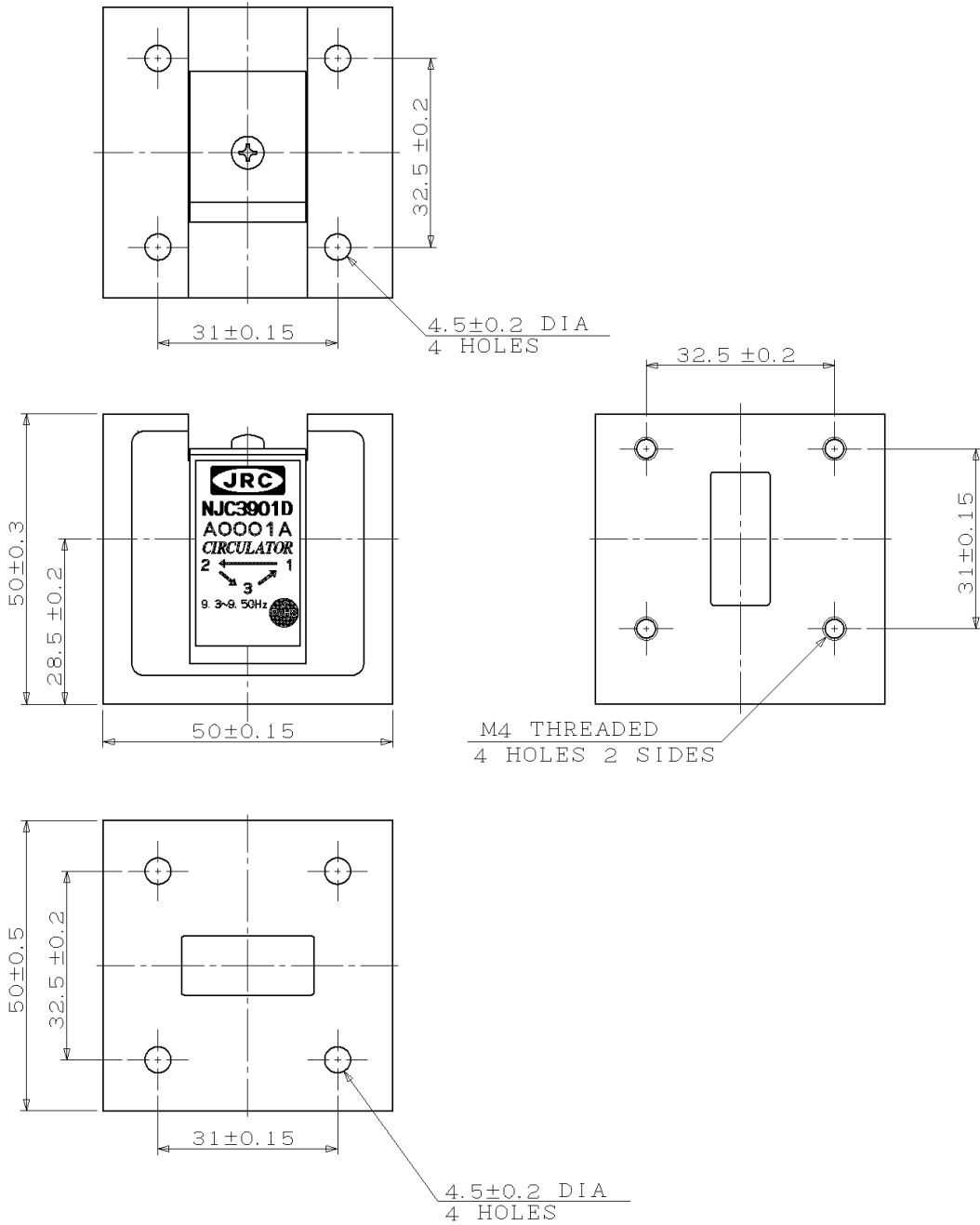
■ ELECTRICAL CHARACTERISTICS

PARAMETERS	Test conditions	Code	Limit		
			Min.	Max.	Units
High power input	port①→② f=9.4GHz; Po=5kW; tp=1.0μs; fp=1000pps;	-	-	5	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".)

* Above Specifications are subject to change without notice.

