

Date

May 29, 2018

Released

S band Circulator

Model No. NJC3312A

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Microwave Division

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New Japan Radio Co., Ltd.
Microwave Division

Title:

Datasheet of NJC3312A

Reference No.:

DS-C3312A

Rev.:

02E

Sheet:

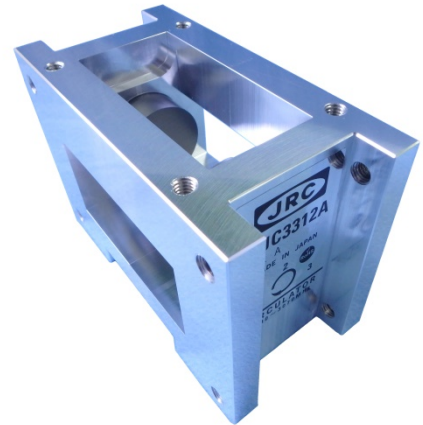
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■ GENERAL DESCRIPTION

NJC3312A is designed for the E plane circulator of S band radar system.

It transmits power from the magnetron to the antenna as well as the receiving signal from the antenna to the receiver port.

Its frequency range is between 3.03GHz and 3.07GHz



■ ABSOLUTE MAXIMUM RATINGS

PARAMETERS		Minimum	Maximum	Units
Frequency range		3.03	3.07	GHz
Continuous handling power	Peak	-	40	kW
	Average	-	30	W
Storage temperature		-40	+100	°C
Operating temperature		-25	+90	°C
Pulse width		-	1.0	μs
Duty		-	0.001	-

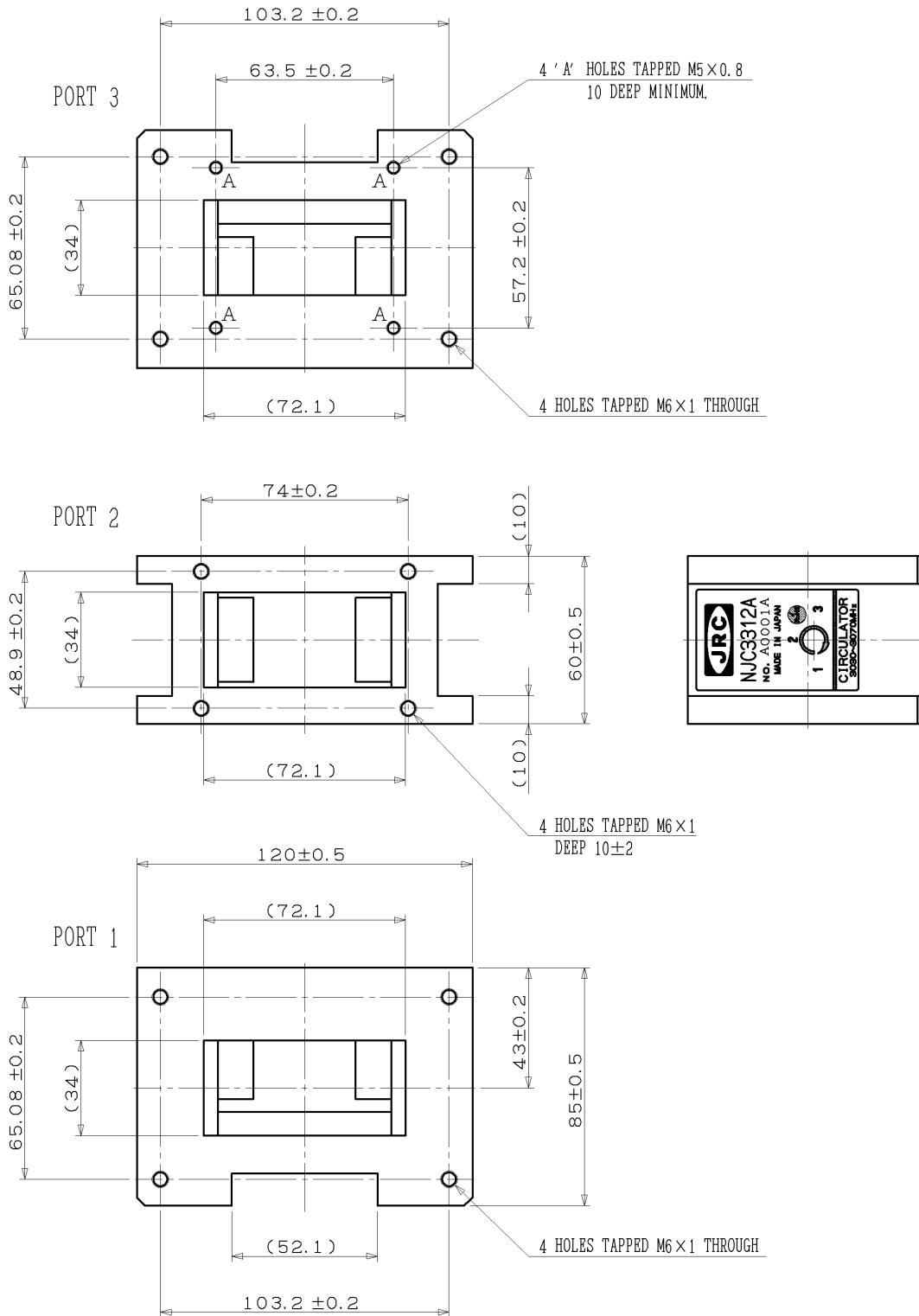
■ ELECTRICAL CHARACTERISTICS

PARAMETERS	Test conditions	Code	Limit		
			Min.	Max.	Units
High power input	port①→② f=3.05GHz; Po=30kW; tp=1.0μs; fp=1000pps;	-	-	30	kW
V.S.W.R.	port①	σ	-	1.3	-
	port②		-	1.3	-
	port③		-	1.3	-
Insertion loss	port①→②	Li	-	0.5	dB
	port②→③		-	0.5	dB
	port③→①		-	0.5	dB
Isolation	port②→①	-	17	-	dB
	port③→②		17	-	dB
	port①→③		17	-	dB

Note: V.S.W.R., Insertion loss, and Isolation are measured under the conditions, frequency 2.8 to 3.3GHz input signal 0.1mW.

*Above Specifications are subject to change without notice.

■ OUTLINE



(Dimensions are expressed in "mm".)

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