

Released

S-band Circulator

Model No. NJC3312A

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Microwave Business Headquarters**

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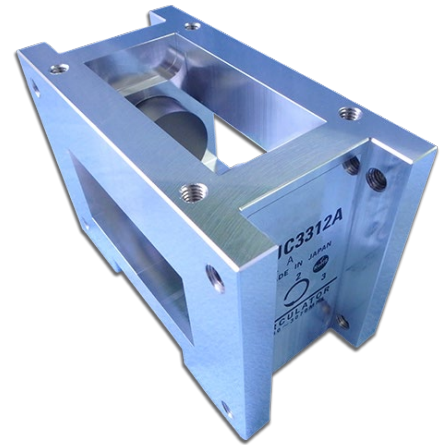
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■ GENERAL DESCRIPTION

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	-

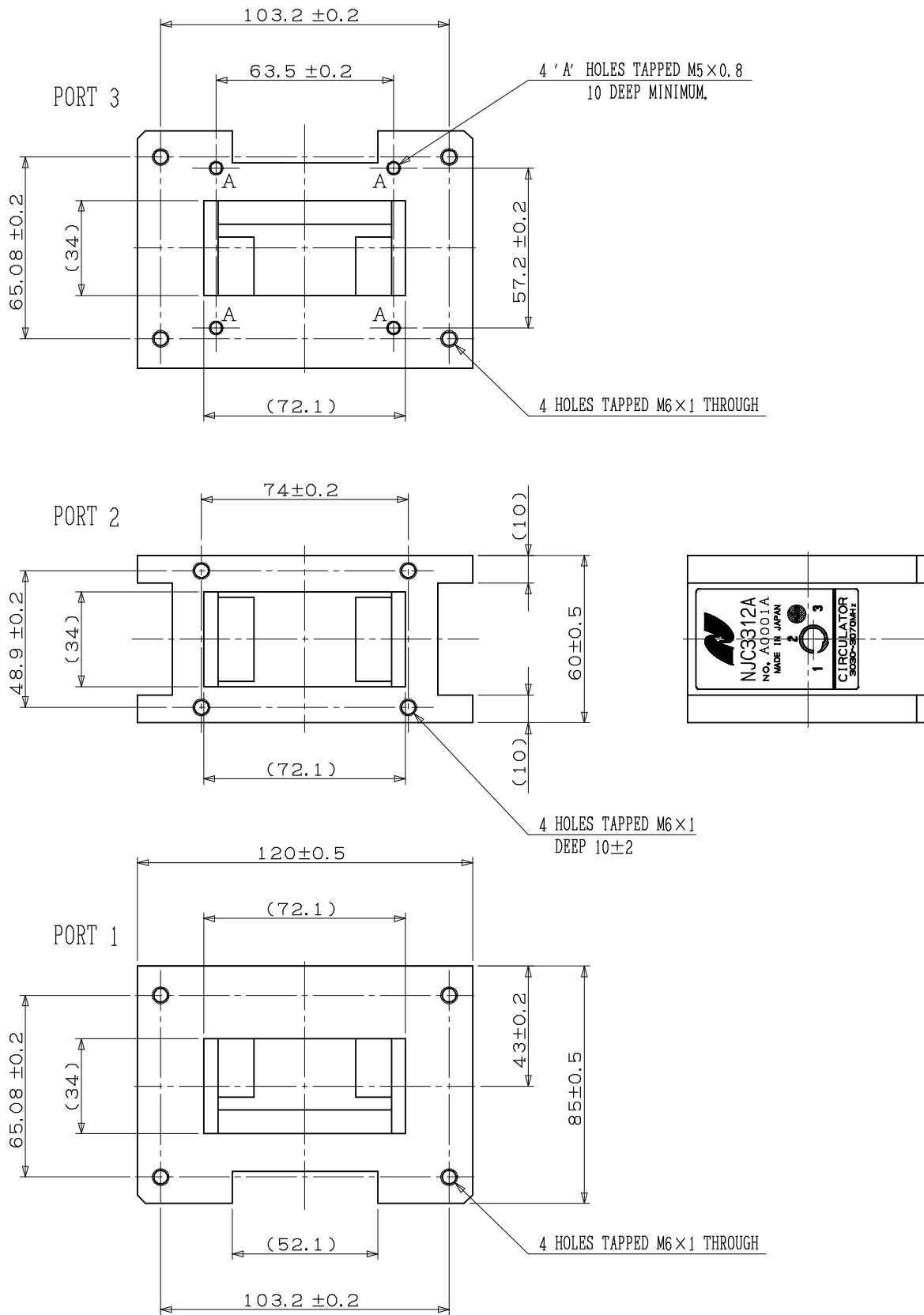
■ ELECTRICAL CHARACTERISTICS

PARAMETERS	TEST CONDITIONS		CODE	LIMIT		
				MINIMUM	MAXIMUM	UNITS
High power input	port①→②	f=3.05GHz; Po=30kW; tp=1.0μs; fp=1000pps;	-	-	30	kW
V.S.W.R.	port①	f=3.03GHz	σ	-	1.3	-
	port②	f=3.05GHz		-	1.3	-
	port③	f=3.07GHz		-	1.3	-
Insertion loss	port①→②	f=3.03GHz	Li	-	0.5	dB
	port②→③	f=3.05GHz		-	0.5	dB
	port③→①	f=3.07GHz		-	0.5	dB
Isolation	port②→①	f=3.03GHz	-	17	-	dB
	port③→②	f=3.05GHz		17	-	dB
	port①→③	f=3.07GHz		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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Reference No.: DS-C3312A	Rev.: 04E	Sheet: 3
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