

Released

X-band Circulator

Model No. NJC3901D

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Microwave Business Headquarters**

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■ 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	-

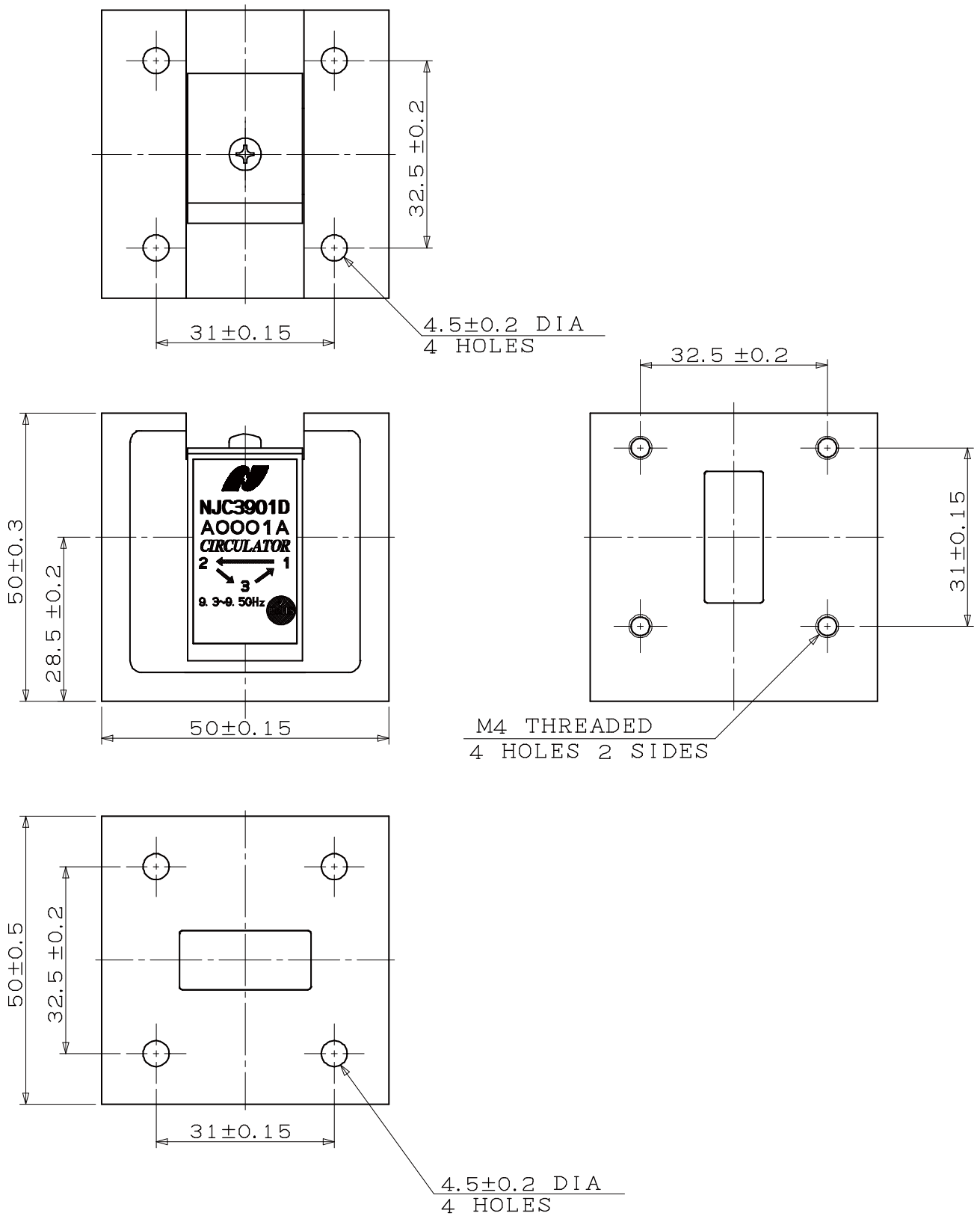
■ ELECTRICAL CHARACTERISTICS

PARAMETERS	TEST CONDITIONS	CODE	LIMIT		
			MINIMUM	MAXIMUM	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.

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■ OUTLINE



(Dimensions are expressed in "mm".)

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