



New Japan Radio Co., Ltd.

Technical Information

Rev. 3

Circulator NJC3901B

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

NJC3901B circulate microwave lower insertion loss at the broad band.

This product is adapted on RoHS directive.

ABSOLUTE MAXIMUM RATINGS

	f	P _{peak}	P _{AV}	T _{stg}	T _a	t _p	Duty	Humidity
Unit	GHz	kW	W	Degrees C	Degrees C	μ s	-	%
Maximum	9.5	30	30	100	70	1.0	0.001	90
Minimum	9.3	-	-	-40	-30	-	-	-

ELECTRICAL CHARACTERISTICS

Items	Test Conditions		Code	Limit		
				Min.	Max.	unit
High Power Input	port①→②	f=9.4GHz; Po=30kW; tp=1.0μs; fp=1000pps;	hp	-	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	Iso	25	-	dB
	port③→②	f=9.4GHz		25	-	dB
	port①→③	f=9.5GHz		25	-	dB



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Outline (Unit : mm)

