NJC3312

S-Band Circulator

NJC3312 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.
It is operable at any frequency between 3.03GHz and 3.07GHz.

---- MAXIMUM RATINGS ----

		Min	Max	Unit
Continuous handling power	Peak (Note1, 2, 3)	-	40	kW
	Average	-	30	W
Ambient temperature		-25	90	Degree centigrade

---- ELECTRICAL ----

	Min	Max	Unit
V.S.W.R. (Note 4, 5)	-	1.22	-
V.S.W.R. (Note 4, 6)	-	1.25	-
Insertion loss (Note 3, 4)	-	0.3	dB
Isolation (Note 4, 5)	20	-	dB

Note 1: Pulse length 1us and Duty cycle 0.001.
Note 2: Output port terminated with V.S.W.R 2:1 maximum.
Isolated port terminated with any V.S.W.R, including full short circuit in any pulse.
Note 3: Circulator insertion loss may increase above 0.3dB at power levels above 30kW.
Insertion loss is measured assuming the ports not under test are terminated with a V.S.W.R 1.1:1 maximum.
Note 4: Measured at power level 0.1mW CW.
Note 5: Other port terminated with V.S.W.R 1.1:1 maximum.
V.S.W.R and Isolation specified over ambient temperature range 10 degrees centigrade to 30 degrees centigrade.
Note 6: Other port terminated with V.S.W.R 1.1:1 maximum.
V.S.W.R specified over ambient temperature range –25 degree centigrade to 90 degree centigrade.

For further information on the use of the circulator, Please contact New JRC. New JRC reserves the right to change the specification of goods without notice.

Rev.2

OUTLINE

Note: Dimensions are in mm

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