X-Band Radar Front End

NJT1967

NJT1967 is designed for the front end of marine radar system.

It features a small size and a light weight operable at any frequency between 9.415GHz and 9.475GHz. This front end module consists of Single balance mixer, Local VCO with buffer amplifier.

The stability of the local VCO frequency by the input RF power is increased effectively by the buffer amplifier which is located between image rejection mixer and local VCO.

-- ELECTRICAL -- < at 25 degree >

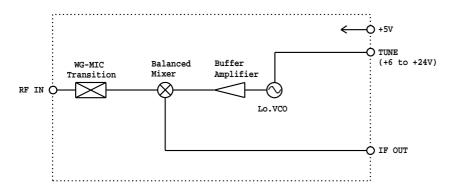
		Min	Typical	Max	Unit
Operating voltage		4.8	5.0	5.2	V
Operating current		-	50	70	mA
Local frequency	VT= 6V	-	-	9.445	GHz
	VT=24V	9.565	-	-	GHz
Noise figure(Note1)		-	4.0	6.5	dB
Conversion gain(Note1)		-7.0	-4.0	-	dB
RF single pulse burnout(Note2)		-	-	600	mW
RF repetitive pulse burnout(Note3)		-	-	400	mW

Note1: Double sideband measurement

Note2: f=9.445GHz, Pd=10nsec

Note3: f=9.445GHz, Pd=1µsec, Duty=0.001

-- BLOCK DIAGRAM --



For further information on the use of the front end, please contact New JRC.

New JRC reserves the right to change the specification of goods without notice.

