

[Application Note]

- Part Name : BNT22
- Test Frequency : 2000~6000MHz
- Main Application Goal : Evaluation Board Application Circuit Notes
- Measuring Equipment List
Network Analyzer : E5071B , Signal : N5182A, Spectrum Analyzer : N9020A
- Test Result :

Frequency	MHz	2140	4050	5800	Remark
Gain	dB	19.7	19.8	19.5	-
S11	dB	-9.7	-13.3	-7.4	Log magnitude
S22	dB	-7.1	-18.4	-17.6	Log magnitude
P1	dBm	19.6	19.1	18.1	-
OIP3	dBm	34.4	34.5	32.8	@5dBm/tone, Δf=1MHz
NF	dB	1.53	1.94	2.21	10th average
Current	mA	92			@Vd = 5V

* NF : Losses on input and output transmission lines on PCB are not de-embedded.

* Appendix: TEST items available to change depending on the situation.

***Application Circuit_2000~6000MHz**

Schematic Diagram		BOM		Remark	
		C1	0603	1nF	-
		C2	0603	100pF	-
		C3	0603	1nF	-
		C4	0603	1nF	-
		L1	0603	1.8nH	-
		R1	0603	3ohm	-
		R2	0603	20Kohm	-
		U1	DFN2x2	BNT22	-
E/B Configuration		Ref	Object	Distance	Remark
		Input Pin	C1	2.3mm	-
		Output Pin	C2	6.9mm	-

[S-parameter]

