

[Application Note]

- Part Name : BNT22
- Test Frequency : 600~5000MHz
- Main Application Goal : Application Circuit Note
- Measuring Equipment List

Network Analyzer : E5071B , Signal : N5182A, Spectrum Analyzer : N9020A

▪ Test Result :

Frequency	MHz	600	1560	4200	5000	Remark
Gain	dB	20.0	21.1	20.3	20.1	-
S11	dB	-6.9	-21.1	-12.0	-11.7	Log magnitude
S22	dB	-6.5	-19.0	-13.9	-10.6	Log magnitude
P1	dBm	20.0	21.0	19.3	19.3	-
OIP3	dBm	36.1	36.8	32.2	32.4	@5dBm/tone, Δf=1MHz
NF	dB	1.56	1.44	1.73	1.94	-
Current	mA	87				@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_600~5000MHz**

Schematic Diagram		BOM		Remark	
		C1	0603	1uF	-
		C2	0603	100pF	-
		C3	0603	1nF	-
		C4	0603	1nF	-
		R2	0603	20Kohm	-
		L1	0603	12nH	-
		U1	DFN2x2	BNT22	-
E/B Configuration		Ref	Object	Distance	Remark
		-	-	mm	-
		-	-	mm	-

[S-parameter]

