

## [Application Note]

▪ PART Name : BNT22

▪ TEST FREQUENCY : 4190~4910MHz

▪ Main Application Goal :

▪ Measuring Equipment List

Network Analyzer : E5071B , Signal : N5182A & N5182B , Spectrum Analyzer : E4440A

▪ Test Result :

Frequency	MHz	4190	4550	4910	Mark
Gain	dB	20.1	20.0	20.1	
S11	VSWR	1.13	1.05	1.17	
S22	VSWR	1.59	1.66	1.64	
OIP3	dBm	33.5	33.3	33.7	@5dBm/tone
P1	dBm	19.2	19.1	19.0	
NF	dB	1.8	1.9	2.0	
Current	mA	84			Vcc = 5V

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

### \*Application Circuit\_4190~4910MHz

Schematic Diagram	BOM	Marks																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>C1</td><td>0603</td><td>1uF</td></tr> <tr><td>C2</td><td>0603</td><td>100pF</td></tr> <tr><td>C3</td><td>0603</td><td>2.2pF</td></tr> <tr><td>C4</td><td>0603</td><td>NA</td></tr> <tr><td>L1</td><td>0603</td><td>1.8nH</td></tr> <tr><td>R1</td><td>0603</td><td>3 ohm</td></tr> <tr><td>R2</td><td>0603</td><td>20 Kohm</td></tr> <tr><td>U1</td><td>DFN2x2</td><td>BNT22</td></tr> </table>	C1	0603	1uF	C2	0603	100pF	C3	0603	2.2pF	C4	0603	NA	L1	0603	1.8nH	R1	0603	3 ohm	R2	0603	20 Kohm	U1	DFN2x2	BNT22	
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E/B Configuration	Marks																									

[S-parameter]

