

# [Application Note]

- PART Name : BLB02
- TEST FREQUENCY : 1.525~1.559GHz
- Main Application Goal : 3V
- Measuring Equipment List

Network Analyzer : E5080A , Signal : N5182A & N5182B , Spectrum Analyzer : N9020A

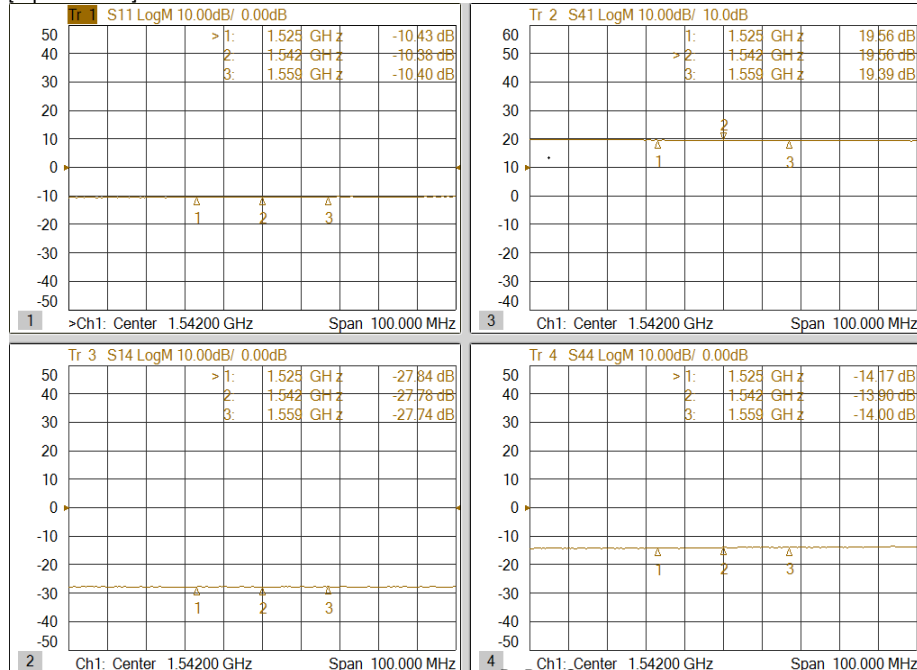
## Test Result :

Frequency	GHz	1.525	1.542	1.559	Mark
Gain	dB	19.6	19.6	19.4	
S11	dB	-10.4	-10.4	-10.4	
S22	dB	-14.2	-13.9	-14.0	
OIP3	dBm	33.5	33.0	32.3	@0dBm/tone
P1	dBm	16.2	16.0	16.1	
NF	dB	0.63	0.62	0.62	@EV board
Current	mA	34			Vd = 3V

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

*Application Circuit_1.5~2.7GHz			
Schematic Diagram	BOM		Marks
	C1	0603 100pF	
	C2	0603 100pF	
	C3	0603 12pF	
	C4	0603 100pF	
	L1	0603 15nH	
	L2	0603 39nH	
	R1	0603 5.1kohm	
	R2	0603 3ohm	
	U1	DFN2x2 BLB02	
E/B Configuration			Marks

## [S-parameter]



Berex Corp.

[N.F]

Frequency	Noise Figure	Gain
1.457000000 GHz	0.6152 dB	19.990 dB
1.465500000 GHz	0.6216 dB	19.947 dB
1.474000000 GHz	0.6218 dB	19.931 dB
1.482500000 GHz	0.6131 dB	19.723 dB
1.491000000 GHz	0.6256 dB	19.586 dB
1.499500000 GHz	0.6391 dB	19.502 dB
1.508000000 GHz	0.6164 dB	19.547 dB
1.516500000 GHz	0.6194 dB	19.719 dB
1.525000000 GHz	0.6294 dB	19.921 dB
1.533500000 GHz	0.6277 dB	19.961 dB
1.542000000 GHz	0.6157 dB	19.857 dB
1.550500000 GHz	0.6339 dB	19.578 dB
1.559000000 GHz	0.6240 dB	19.365 dB
<b>1.567500000 GHz</b>	<b>0.6388 dB</b>	<b>19.271 dB</b>
1.576000000 GHz	0.6398 dB	19.218 dB
1.584500000 GHz	0.6355 dB	19.312 dB
1.593000000 GHz	0.6337 dB	19.370 dB
1.601500000 GHz	0.6459 dB	19.286 dB
1.610000000 GHz	0.6439 dB	19.178 dB
1.618500000 GHz	0.6468 dB	19.154 dB
1.627000000 GHz	0.6472 dB	19.099 dB