[Application Note]

- **PART Name : BLB03**
- **TEST FREQUENCY : 1.525~1.559GHz**
- **Main Application Goal : 3V**
- **Measuring Equipment List**

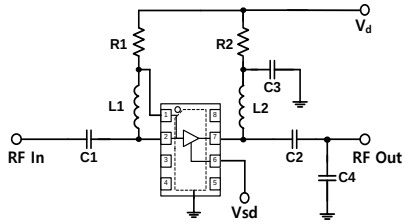
Network Analyzer : E5080A , Signal : N5182A & N5182B , Spectrum Analyzer : N9020A

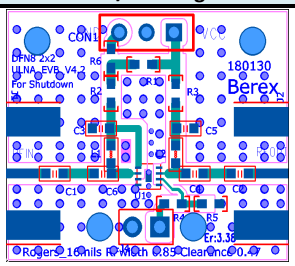
▪Test Result :

Frequency	GHz	**1.525**	**1.542**	**1.559**	Mark
Gain	dB	20.3	20.3	20.2	
S11	dB	-11.6	-11.4	-11.3	
S22	dB	-6.9	-6.9	-7.0	
OIP3	dBm	28.6	28.8	29.1	@0dBm/tone
P1	dBm	15.9	15.9	16.0	
N.F	dB	0.81	0.81	0.80	@EV board
N.F	dB	0.69	0.69	0.68	@de-embedded
Current	mA		32		Vd = 3V

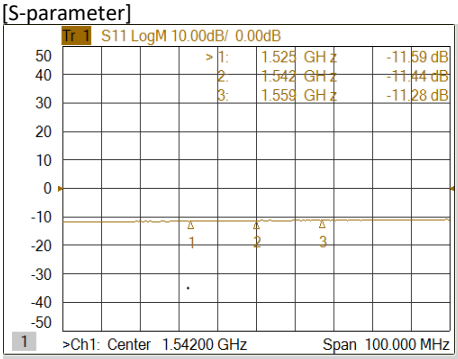
Appendix: TEST items available to change depending on the situation.

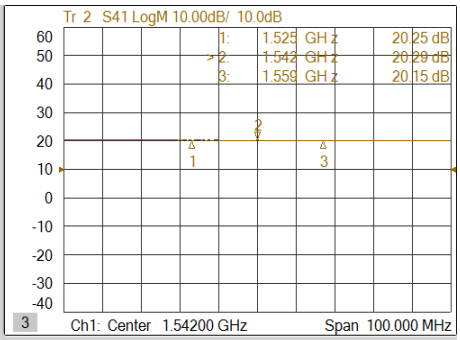
*Application Circuit_1.5~3GHz

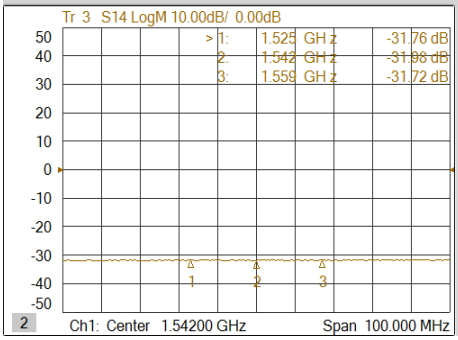
Schematic Diagram	BOM		Marks
	C1	0603	20pF	
	C2	0603	20pF	
	C3	0603	20pF	
	C4	0603	N/A	
	L1	0603	15nH	
	L2	0603	8.2nH	
	R1	0603	6.8kohm	
	R2	0603	3ohm	
	U1	DFN2x2	BLB03	

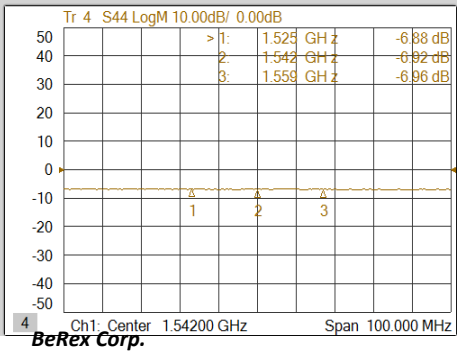
E/B Configuration	Marks
	

[S-parameter]









[N.F]

Frequency	Noise Figure	Gain
1.457000000 GHz	0.8934 dB	20.617 dB
1.465500000 GHz	0.8821 dB	20.633 dB
1.474000000 GHz	0.8661 dB	20.908 dB
1.482500000 GHz	0.8749 dB	20.969 dB
1.491000000 GHz	0.8733 dB	20.846 dB
1.499500000 GHz	0.8691 dB	20.427 dB
1.508000000 GHz	0.8472 dB	19.964 dB
1.516500000 GHz	0.8510 dB	19.730 dB
1.525000000 GHz	0.8142 dB	19.869 dB
1.533500000 GHz	0.8107 dB	20.218 dB
1.542000000 GHz	0.8120 dB	20.710 dB
1.550500000 GHz	0.8063 dB	20.949 dB
1.559000000 GHz	0.8042 dB	20.860 dB
1.567500000 GHz	0.7883 dB	20.546 dB
1.576000000 GHz	0.7806 dB	20.161 dB
1.584500000 GHz	0.7870 dB	20.034 dB
1.593000000 GHz	0.7839 dB	20.109 dB
1.601500000 GHz	0.7999 dB	20.179 dB
1.610000000 GHz	0.7661 dB	20.179 dB
1.618500000 GHz	0.7682 dB	20.048 dB
1.627000000 GHz	0.7661 dB	19.735 dB