

# [Application Note]

▪ Part Name : BLB01

▪ Test Frequency : 1166~1626MHz

▪ Main Application Goal : Application Circuit Note

▪ Measuring Equipment List

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

▪ Test Result :

Frequency	MHz	1166	1396	1626	Remark
Gain	dB	19.4	18.3	17.2	-
S11	dB	-11.2	-13.7	-16.0	Log magnitude
S22	dB	-17.2	-16.2	-14.9	Log magnitude
P1	dBm	21.6	21.4	20.5	-
OIP3	dBm	32.6	32.0	31.4	@0dBm/tone, Δf=1MHz
NF	dB	0.6	0.7	0.7	-
Current	mA	70			@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\_1166~1626MHz**

Schematic Diagram		BOM		Remark	
		C1	0603	6pF	-
		C2	0603	100pF	-
		C3	0603	12pF	-
		C4	0603	100pF	-
		L1	0603	27nH	-
		L2	0603	82nH	-
		R1	0603	6.8kohm	-
		R2	0603	0ohm	-
		U1	DFN2x2	BLB01	-
E/B Configuration		Reference	Object	Distance	Remark
		Input pin	-	mm	-
		Output pin	-	mm	-

[S-parameter]

