

# [Application Note]

- Part Name : BLB04
- Test Frequency : 1900~4000MHz
- Main Application Goal : Application Circuit Note
- Measuring Equipment List

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

▪ Test Result :

Frequency	MHz	1900	2950	4000	Remark
Gain	dB	20.9	21.4	21.0	-
S11	dB	-1.5	-6.3	-12.2	Log magnitude
S22	dB	-5.6	-5.7	-9.0	Log magnitude
P1	dBm	18.3	19.0	19.2	-
OIP3	dBm	30.0	32.3	33.0	@0dBm/tone, Δf=1MHz
NF	dB	0.5	0.4	0.5	-
Current	mA	44			@Vd = 5V

\* Noise Figure data has input trace loss de-embedded.

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

**\*Application Circuit\_1900~4000MHz**

Schematic Diagram		BOM		Remark	
	C1	0603	1nF	-	
	C2	0603	100pF	-	
	C3	0603	2pF	HQ	
	C4	0603	2pF	-	
	C5	0603	0.3pF	-	
	C6	0603	0.3pF	-	
	L1	0603	1.8nH	-	
	L2	0603	1nH	-	
	R1	0603	1.8Kohm	-	
	R2	0603	0ohm	-	
R3	0603	20Kohm	-		
E/B Configuration		Reference	Object	Distance	Remark
	Input pin	-	mm	-	-
	Input pin	-	mm	-	-
	Output pin	-	mm	-	-

**[#1\_S-parameter]**

