

[Application Note]

- Part Name : BLB28
- Test Frequency : 3000~5800MHz
- Main Application Goal : Evaluation Board Application Circuit Note
- Measuring Equipment List

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

▪ Test Result :

Frequency	MHz	3000	5000	5300	5800	Remark
Gain	dB	20.3	20.8	20.4	18.4	-
S11	dB	-4.5	-17.8	-12.4	-6.6	Log magnitude
S22	dB	-6.3	-9.1	-9.3	-6.5	Log magnitude
P1	dBm	19.0	19.4	18.3	16.8	-
OIP3	dBm	32.0	30.6	29.3	28.7	@0dBm/tone, Δf=1 MHz
NF	dB	0.70	0.86	0.86	1.40	NF data has input trace loss de-embedded
Current	mA	53				@Vd = 5V

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

***Application Circuit_3000~5800MHz**

Schematic Diagram		BOM		Remark	
		C1	0603	NC	-
		C3	0603	1nF	-
		C2, C4, C5	0603	100pF	-
		C6	0603	0.6pF	HQ
		C7	0603	0.3pF	-
		L1	0603	3.3nH	-
		R1	0603	1.5Kohm	-
		R2	0603	0ohm	-
		R3	0603	20Kohm	-
		U1	DRIVER	BLB28	-
E/B Configuration		Reference	Object	Distance	Remark
		Input pin	C6	1.43mm	-
		Output pin	C7	4.77mm	-

[S-parameter]

