

[Application Note]

- PART Name : BLB04
- TEST FREQUENCY : 4500~4600MHz and 4900~5000MHz
- Main Application Goal :
- Measuring Equipment List

Network Analyzer : E5071C , Signal : N5182A & N5182B , Spectrum Analyzer : E4440A

▪Test Result :

Frequency	GHz	3.6	3.85	4.1	4.5	4.55	4.6	Mark
Gain	dB	17.9	17.5	17.0	16.1	15.9	15.8	
S11	dB	-17.0	-19.1	-17.7	-20.5	-20.7	-21.0	
S22	dB	-15.2	-17.2	-13.8	-9.4	-9.0	-8.6	
NF	dB	0.70	0.76	0.82	0.87	0.88	0.90	
NF[de-embedded]	dB	0.58	0.64	0.70	0.77	0.78	0.80	
Current	mA	49			50			Vcc = 5V

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

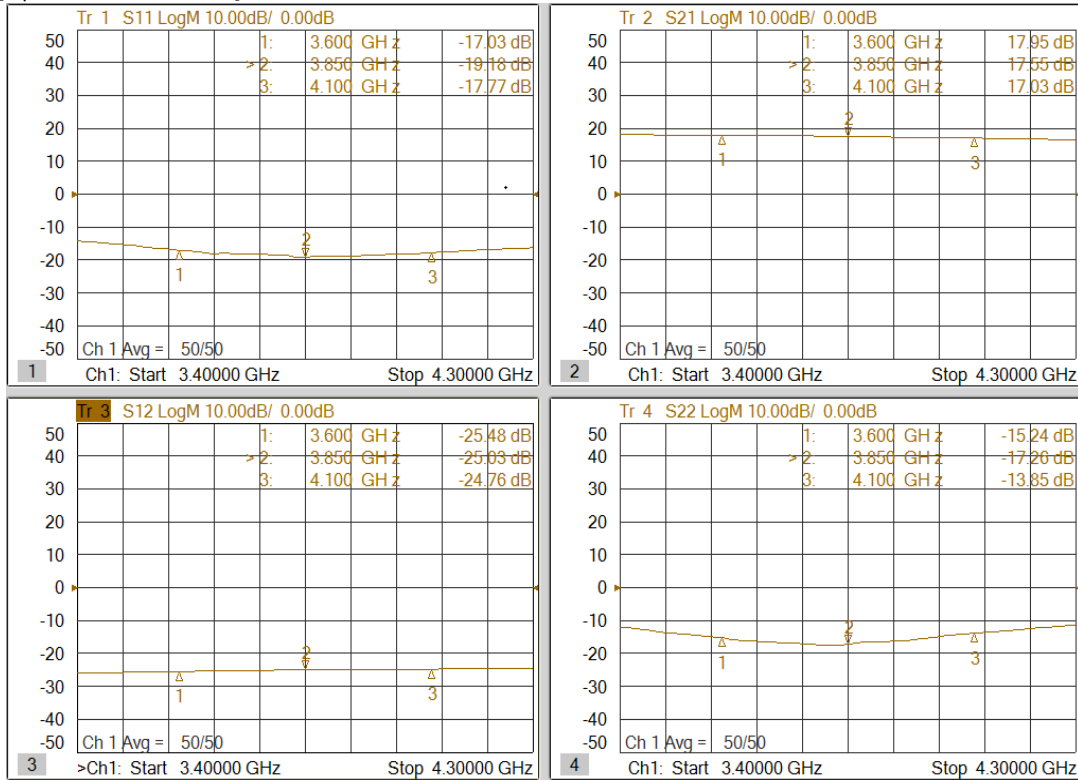
*Application Circuit_3.6~4.1GHz				
Schematic Diagram	BOM	Marks		
	C1	0603	1 nF	
	C2	0603	100 pF	
	C3	0603	2 pF	HQ
	C4	0603	2 pF	
	C5	0603	0.3pF	
	L1	0603	1.8 nH	
	L2	0603	1 nH	
	R1	0603	1.8 kohm	5V
	R2	0603	0 ohm	
	U1	DFN2x2	BLB04	
E/B Configuration		Marks		

*Application Circuit_4.5~4.6GHz				
Schematic Diagram	BOM	Marks		
	C1	0603	1 nF	
	C2	0603	100 pF	
	C3	0603	2 pF	HQ
	C4	0603	2 pF	
	C5	0603	0.3pF	
	L1	0603	2.2 nH	
	L2	0603	Line	
	R1	0603	1.8 kohm	5V
	R2	0603	0 ohm	
	U1	DFN2x2	BLB04	
E/B Configuration		Marks		

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[S-parameter 3.6~4.1GHz]



[S-parameter 4.5~4.6GHz]

