

# [Application Note]

- Part Name : BBA02
- Test Frequency : 600~4400MHz\_3.3V & 5V Application note
- Main Application Goal : Evaluation Board Application Circuit Notes
- Measuring Equipment List

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

▪ Test Result :

Frequency	MHz	600	1900	2140	3500	4400	Remark
Gain	dB	16.4	15.4	15.1	14.2	13.7	-
S11	dB	-15.9	-14.9	-12.8	-13.4	-11.7	Log magnitude
S22	dB	-14.8	-19.6	-16.0	-16.2	-18.4	Log magnitude
OIP3	dBm	34.1	29.2	28.7	29.0	27.1	@5dBm/tone, Δf=1MHz
P1dB	dBm	18.4	18.0	17.4	16.7	15.3	-
Current	mA	60					@Vd = 3.3V

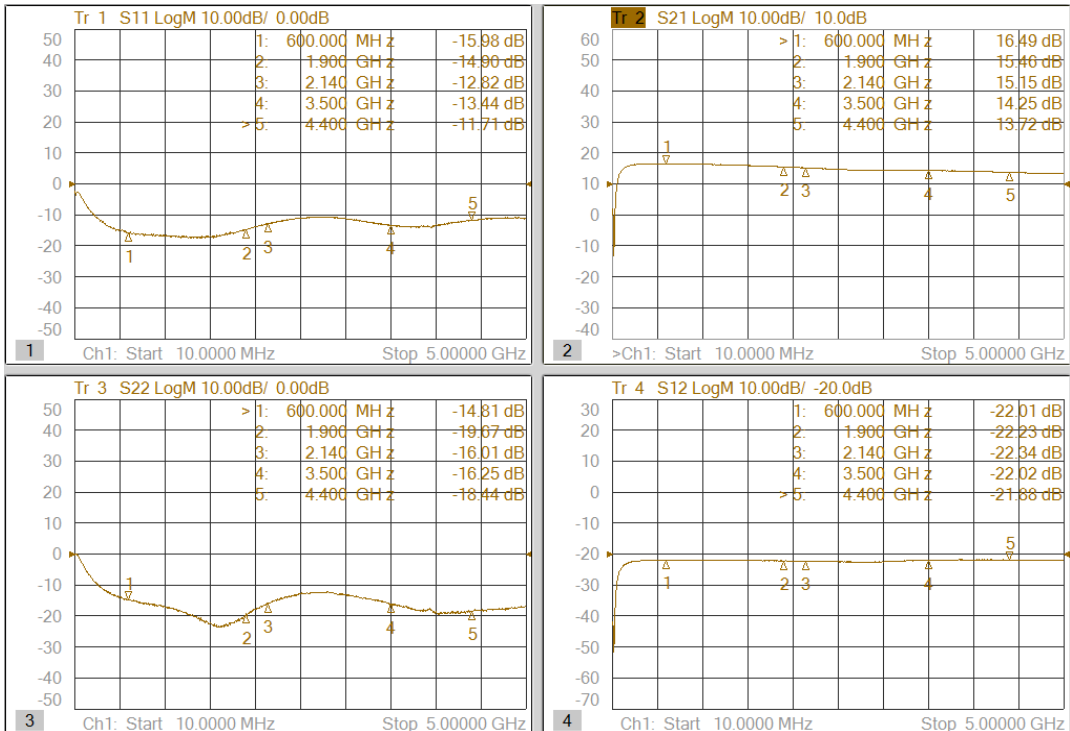
Frequency	MHz	600	1900	2140	3500	4400	Remark
Gain	dB	16.8	15.9	15.6	14.7	14.1	-
S11	dB	-14.7	-15.6	-13.8	-14.4	-11.7	Log magnitude
S22	dB	-13.5	-22.1	-17.8	-16.8	-16.9	Log magnitude
OIP3	dBm	40.3	35.4	34.7	32.9	33.6	@5dBm/tone, Δf=1MHz
P1dB	dBm	22.8	23.2	22.8	21.3	19.7	-
Current	mA	89					@Vd = 5V

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

### \*Application Circuit

Schematic Diagram	BOM	Remark		
	C1	0603 100pF	-	
	C2	0603 100pF	-	
	C3	0603 100pF	-	
	C4	0603 1nF	-	
	L1	0603 39nH	-	
	U1	SOT-89 BBA02	-	
E/B Configuration				
	Reference	Object	Distance	Remark
	Input pin	-	mm	-
Input pin	-	mm	-	-

[3.3V\_S-parameter]



[5V\_S-parameter]

