

# [Application Note]

- Part Name : BBA03
- Test Frequency : 700~2100MHz
- Main Application Goal : Evaluation Board
- Measuring Equipment List  
Network Analyzer : E5071B , Signal : N5182A, Spectrum Analyzer : N9020A
- Test Result :

Frequency	700	800	900	1500	1700	1900	2100	Remark
Gain	14.7	14.7	14.7	14.7	14.6	14.4	14.0	-
S11	-13.5	-14.6	-15.6	-23.7	-19.1	-15.9	-12.7	-
S22	-11.7	-12.7	-13.8	-28.1	-20.6	-15.3	-12.5	-
P1	21.4	21.6	21.5	21.1	21.0	21.1	21.0	-
OIP3	40.3	39.8	40.4	38.7	37.3	36.6	36.1	@6dBm/tone, Δf=1 MHz
Current	99							@Vd = 5V

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

## \*Application Circuit\_700~2100MHz

Schematic Diagram	BOM	Remark	
	C1	0603 100pF	-
	C2	0603 100pF	-
	C3	0603 100pF	-
	C4	0603 1uF	-
	C5	0603 22nH	-
	U1	SOT-89 BBA03	-
E/B Configuration		Remark	
		1. Distance between the edge of the series cap(C1) and the input pin of BBA03 11.78mm. 2. Distance between the edge of the series cap(C2) and the output pin of BBA03 11.24mm.	

### [S-parameter]

