

[Application Note]

- Part Name : BBA03
- Test Frequency : 30~2700MHz
- Main Application Goal : Application Note
- Measuring Equipment List
Network Analyzer : E5071B , Signal : N5182A, Spectrum Analyzer : N9020A

▪ Test Result :

Frequency	MHz	30	900	1800	2700	Remark
Gain	dB	14.5	14.8	14.3	14.2	-
S11	dB	-4.1	-22.2	-15.4	-14.0	Log magnitude
S22	dB	-9.3	-21.0	-16.4	-11.8	Log magnitude
P1	dBm	20.2	21.1	20.3	20.1	-
OIP3	dBm	40.4	39.4	36.2	35.9	@ 6dBm/tone, Δf=1MHz
Current	mA	97				@Vd = 5V

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

***Application Circuit_30~2700MHz**

Schematic Diagram		BOM		Remark	
		C1	0603	200pF	-
		C2	0603	200pF	-
		C3	0603	1nF	-
		C4	0603	10uF	-
		C5	0603	0.3pF	-
		L1	0603	300nH	Coil
		U1	SOT-89	BBA03	-
E/B Configuration		Reference	Object	Distance	Remark
		Input pin	C5	10.0mm	-
		Input pin	-	mm	-
		Output pin	-	mm	-

[S-parameter]

