

# [Application Note]

- Part Name : BBA02
- Test Frequency : 440~5787.5MHz Application note
- Main Application Goal : Application Circuit Notes
- Measuring Equipment List  
Network Analyzer : E5071B , Signal : N5182A, Spectrum Analyzer : N9020A

▪ Test Result :

Frequency	MHz	440	1600	2442.5	5787.5	Remark
Gain	dB	16.1	16.1	15.2	13.0	-
S11	dB	-10.6	-16.2	-14.1	-17.5	Log magnitude
S22	dB	-8.2	-33.2	-17.7	-13.2	Log magnitude
OIP3	dBm	36.6	37.4	34.9	28.5	@5dBm/tone, Δf=1MHz
P1dB	dBm	21.7	22.9	21.8	15.5	-
4FA ACLR	dBm	10.4	10.5	9.5	4.2	-
NF	dB	2.4	2.6	3.1	5.0	-
Current	mA	80.0	79.6	79.5	79.7	@Vd = 5V_4FA Input

\*ACLR Channel Power measured at -50dBc.

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

*Application Circuit_440~5787.5MHz				
Schematic Diagram	BOM		Remark	
	C1	0603 330pF	-	
	C2	0603 330pF	-	
	C3	0603 100pF	-	
	C4	0603 1nF	-	
	L1	0603 18nH	-	
	U1	SOT-89 BBA02	-	
E/B Configuration	Reference	Object	Distance	Remark
	Input pin	-	mm	-
	Input pin	-	mm	-

[S-parameter]

