

NA-1429

BLS6G3135-120 at 3100-3500 MHz

Rev. 3 — 05 October 2015

AMPLEON

Application Measurement
Report

Document information

Info	Content
Keywords	NA-1429
Abstract	Measurement results of a demo board for 3100-3500 MHz with 1x BLS6G3135-120.

Revision history

Rev	Date	Description
1	20111213	
2	20150424	Update for web publication
3	20151005	The format of this document has been redesigned to comply with the new identity guidelines of Ampleon. Legal texts have been adapted to the new company name where appropriate.

1. Introduction

1.1 General information

This report gives the test results for a 3100-3500MHz demo amplifier (Board NA-1429), using the Ampleon LDMOS transistor **BLS6G3135-120**. The following test has been performed:

- Pulsed CW @ $V_{DS}=32V$, $I_{DQ}=100mA$, $t_p=300\mu s$, $\delta=10\%$

All testing has been performed at $V_{DS}=32V$, $I_{DQ}=100mA$ and $T_H=25^\circ C$. Data is presented in graphical format.

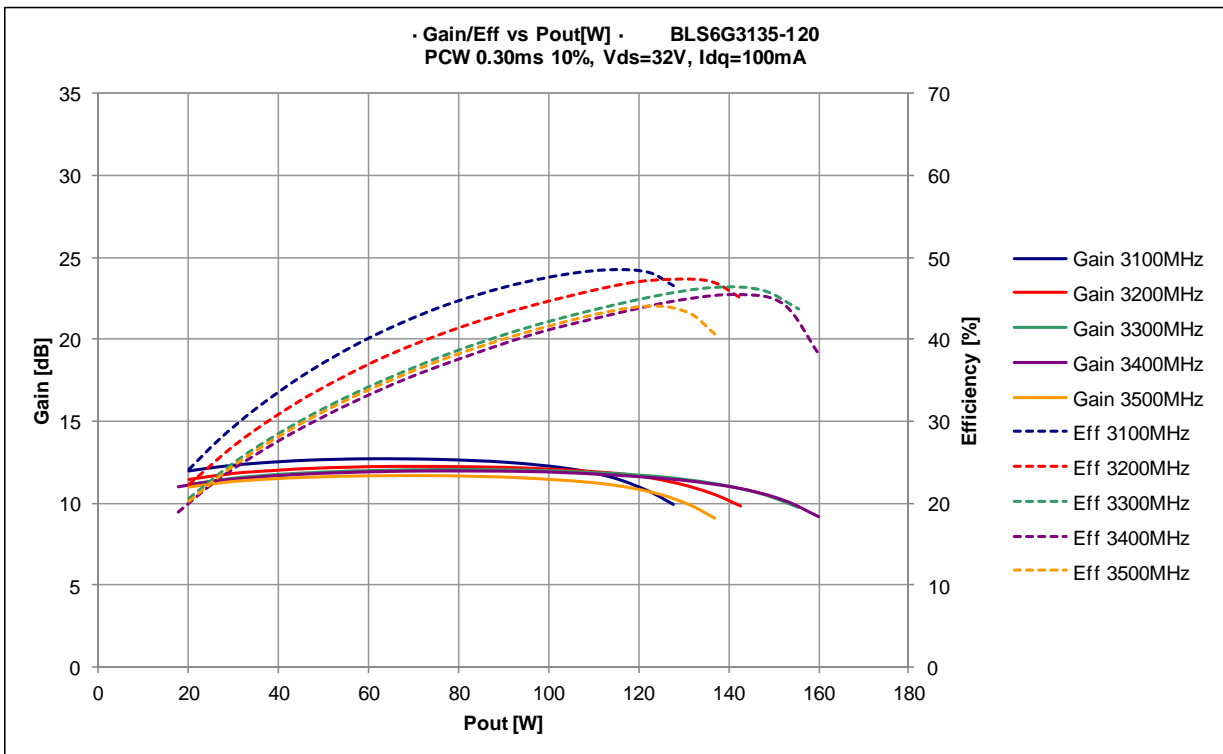
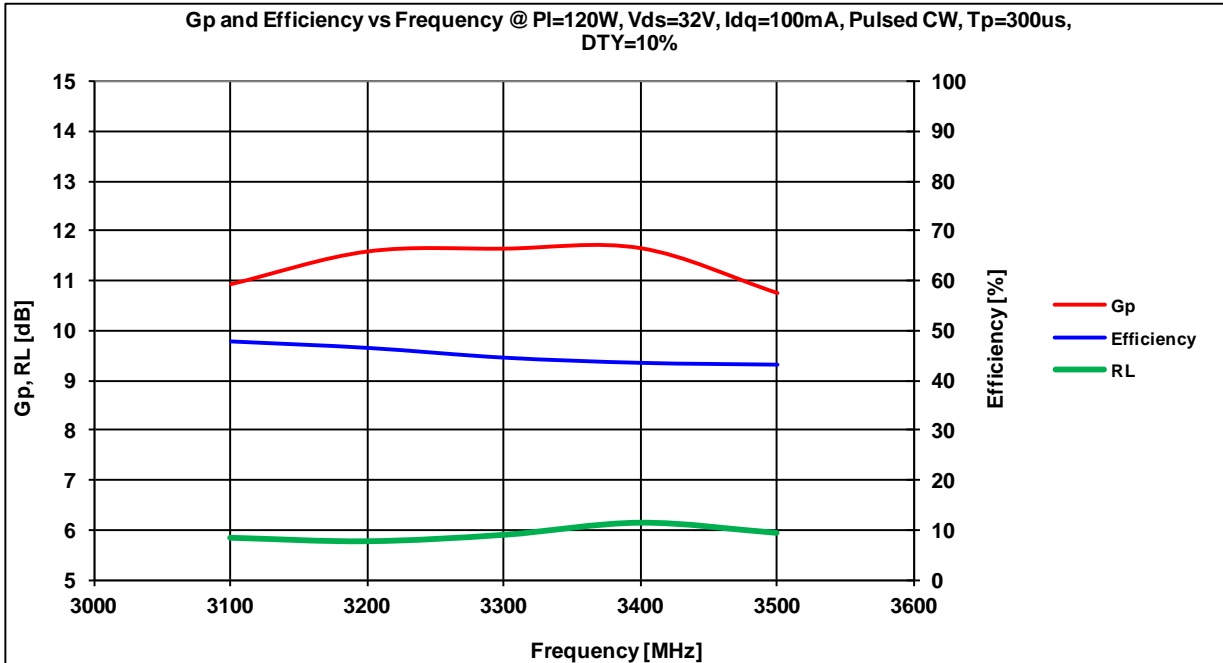
NOTE: Use an Electrolytic Capacitor of 10000uF parallel to the V_{ds} as close as possible to the demo board. This delivers the current peaks to the demo board.

1.2 Test circuit

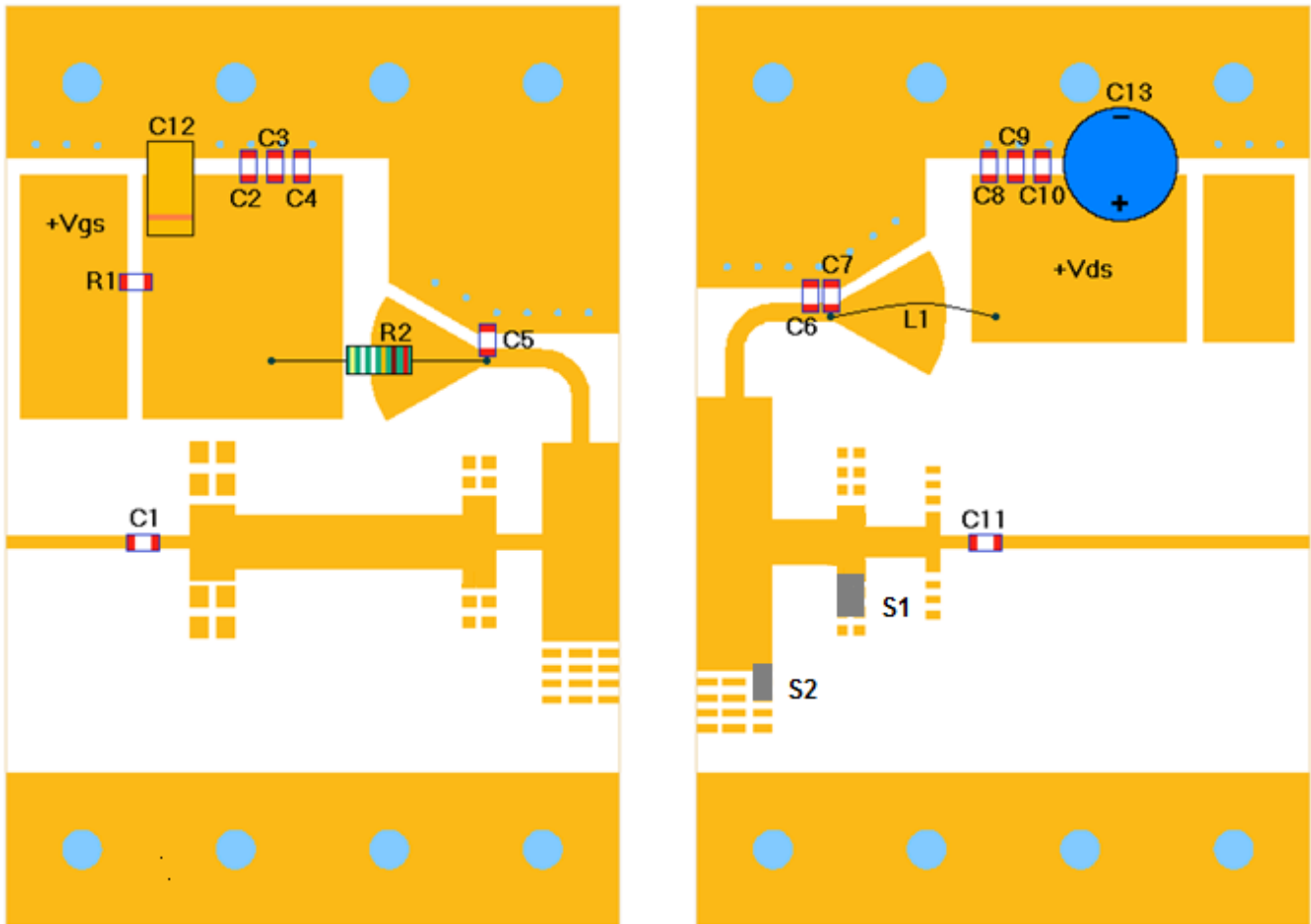
A description of this circuit can be found in **chapter** Error! Reference source not found.. The test circuit has been designed on Duriod 6006, 0.64mm thick, $\epsilon_r=6.16$.

2. Measurement Results

2.1 Test Results Frequency Sweep and Power Sweep:

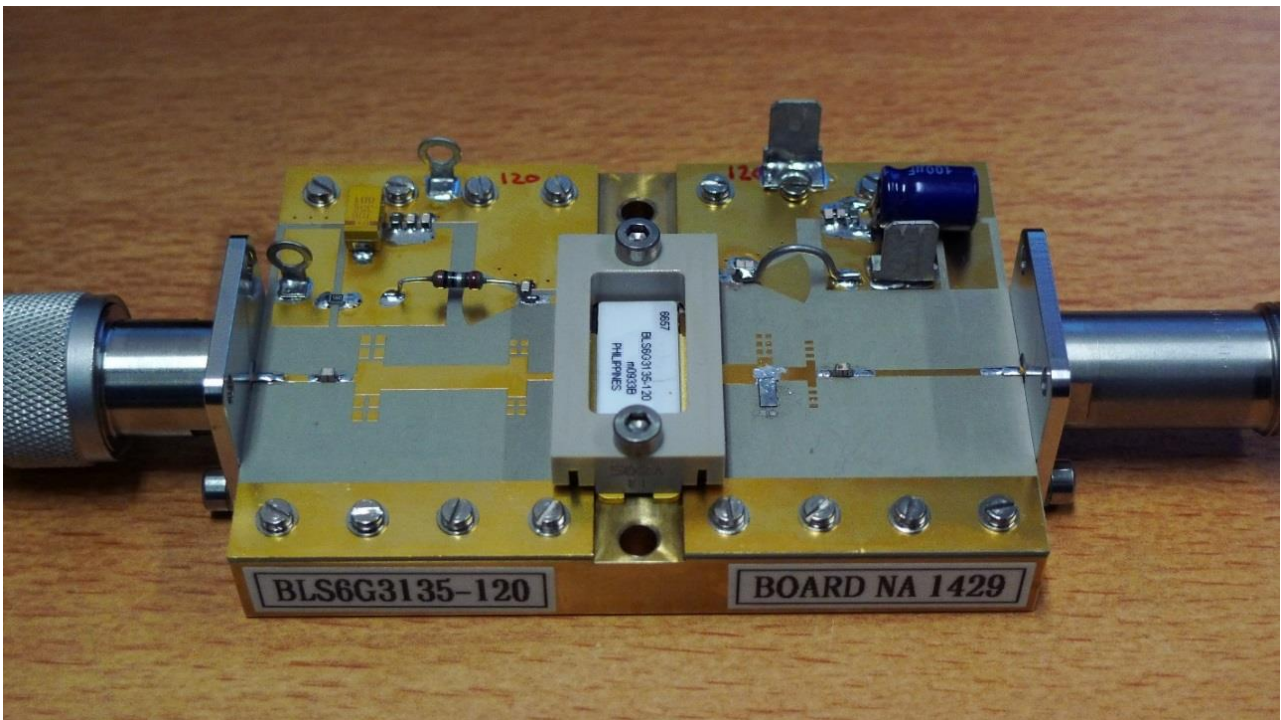
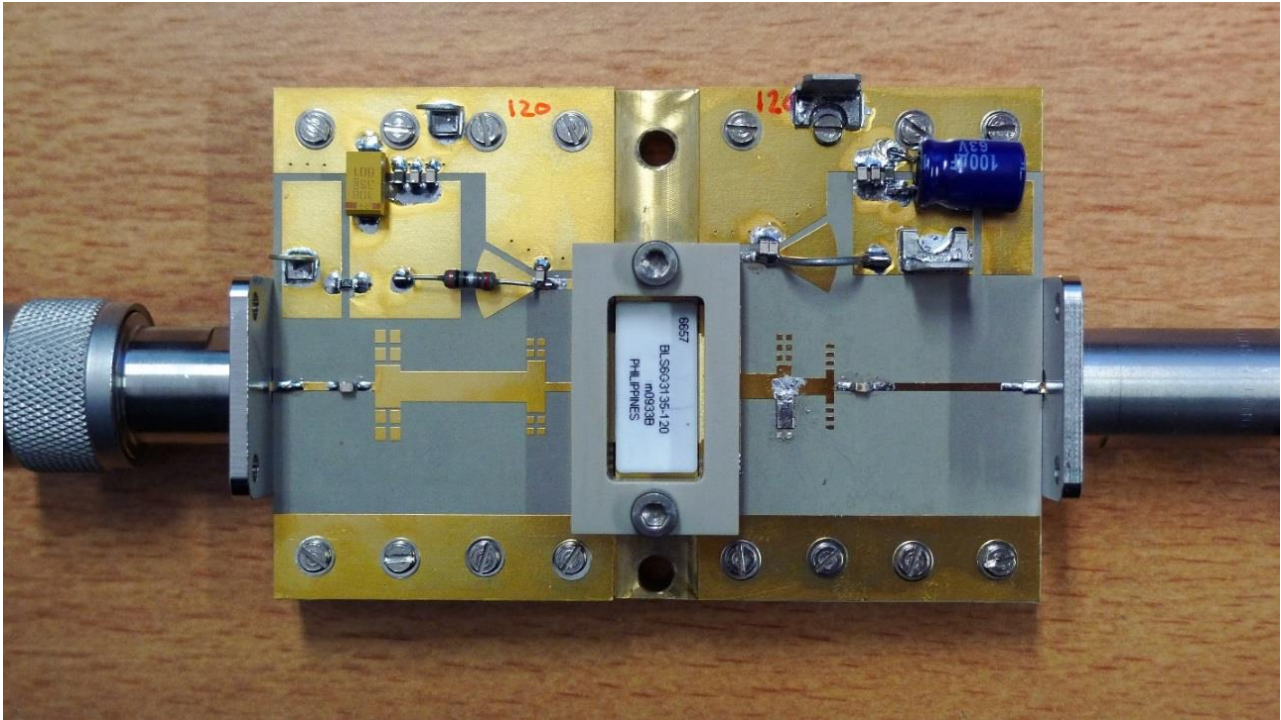


3. Test Circuit and List of Components



List of components	
Component	Description
C1,C3,C4,C5,C6,C7,C8,C9,C11	24pF ATC100A
C2,C10	1nF ATC700A
C12	47uF/20V Tantalum
C13	100uF/63V
R1	56 Ohm SMD
R2	49.9 Ohm / 0.6W MetalFilm
S1	Metal Strip
L1	Copper wire 1mm diameter, length=16mm
Pcb-material=Duriod 6006,E r=6.16, H=0.64mm, 2x Cu	

4. Photos Demo Board



5. Attachments

Please see the attachment for the support files.

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