

NA-1093

BLS7G2933S-150 at 2900-3300 MHz

Rev. 3 — 05 October 2015

AMPLEON

Application Measurement
Report

Document information

Info	Content
Keywords	NA-1093
Abstract	Application Measurement Report at 2900-3300 MHz of a demo board with 1x BLS7G2933S-150.

Revision history

Rev	Date	Description
1	20110107	Original
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

This report gives the test results for a 2900-3300MHz demo amplifier (Board NA-1093), using the Ampleon LDMOS transistor **BLS7G2933S-150**. 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.

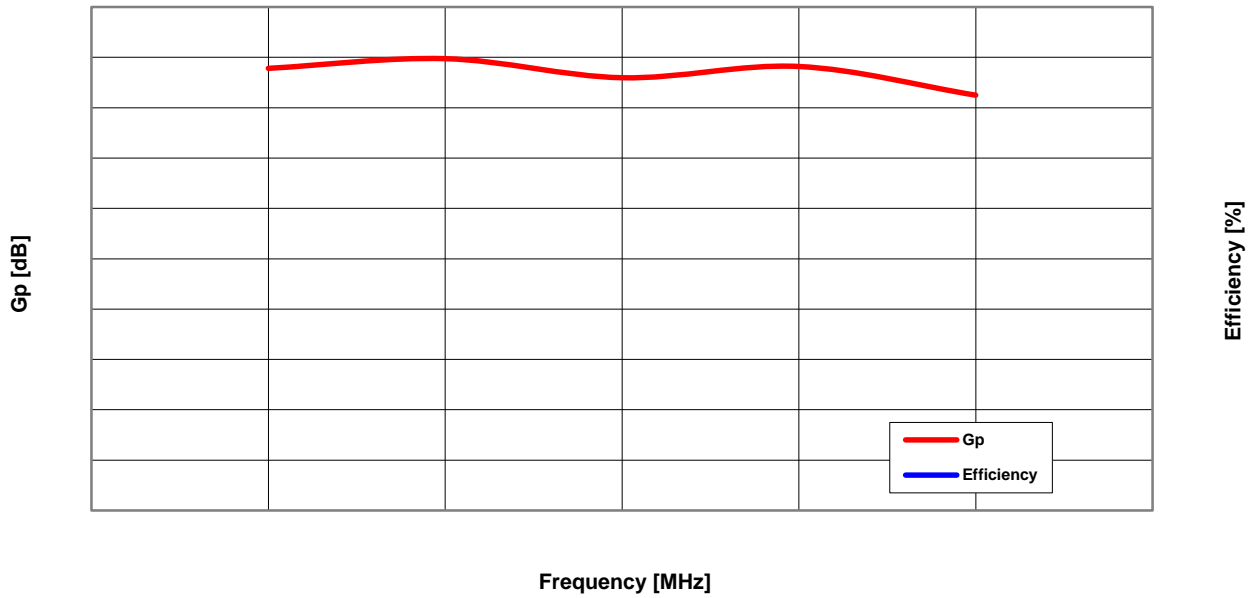
***NOTE: Use an electrolytic capacitor of 10000uF parallel to the Vds as close as possible to the demoboard.
This delivers the current peaks to the demoboard.***

2. Test circuit

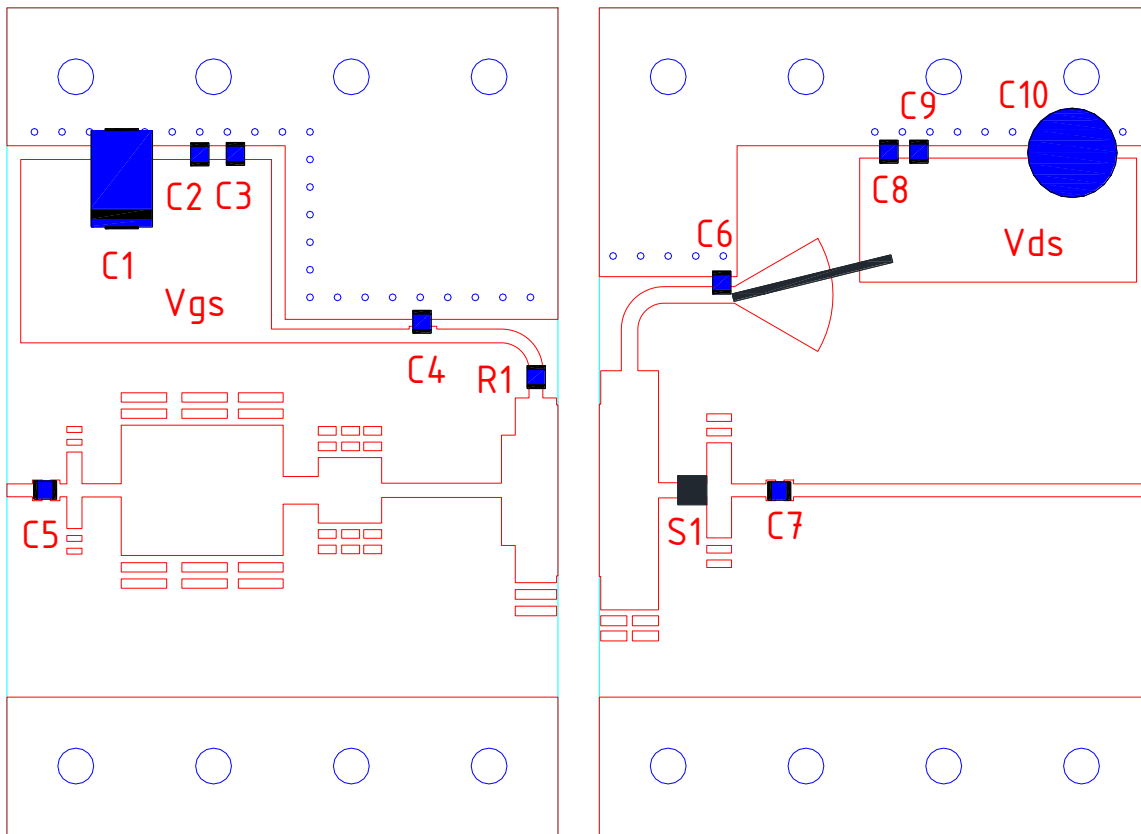
A description of this circuit can be found in **chapter 4**. The test circuit has been designed on Duriod 6006, 0.64mm thick, $\epsilon_r=6.16$.

3. Measurement Results

Gp and Efficiency vs Frequency @ PI=150W, Vds=32V, Idq=100mA, Pulsed CW, Tp=300us, DTY=10%



4. Test Circuit and List of Components



List of components

Component	Description
C1,	10uF/20V Tantalum
C3,C9	100pF ATC100A
C2,C8	1nF ATC700A
C4,C5,C6,C7	10pF ATC100A
C10	68uF / 63V electrolytic capacitor
R1	10 Ohm SMD 0603
S1	Metal strip
Pcb-material=Duriod 6006,E r=6.15, H=0.64mm, 2x 25um Cu	

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