

APPLICATION NOTE



Silicon RF Power Semiconductors

Document NO. AN-900-027-B
Date : 10th May. 2007
Rev. date : 30th Jun. 2010
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(Taking charge of Silicon RF by
Miyoshi Electronics)

SUBJECT: AM-AM, AM-PM and Vgg2-PM for RA45H8994M1 and RA45H7687M1

GENERAL:

AM-AM & AM-PM for RA45H8994M1/7687M1 **page 2-7**

Measure condition:

$T_c=25^{\circ}\text{C}$, $Z_g=Z_l=50\text{ohm}$, $V_{dd}=12.8\text{V}$, $V_{gg1}=3.4\text{V}$, $V_{gg2}=5.0\text{V}$

unless otherwise specified

Relative phase condition:

The phase, when $\text{Pin}=3\text{dBm}$ is input for each of samples, fixes to zero degree.

Vgg2-PM for RA45H8994M1/7687M1 **page 8, 9**

Measure condition:

$T_c=25^{\circ}\text{C}$, $Z_g=Z_l=50\text{ohm}$, $V_{dd}=12.8\text{V}$, $V_{gg1}=3.4\text{V}$, $\text{Pin}=3\text{dBm}$

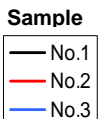
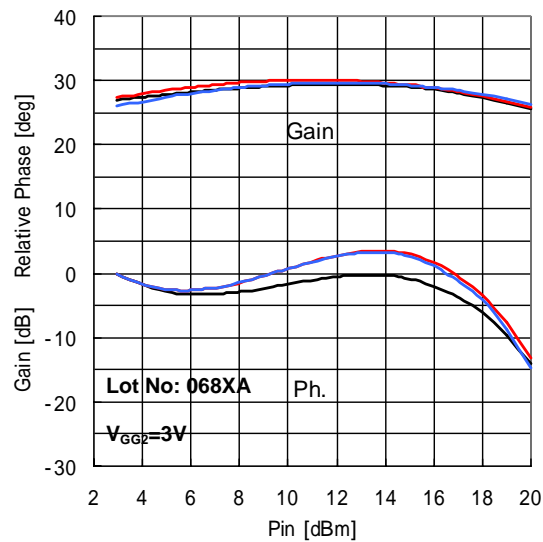
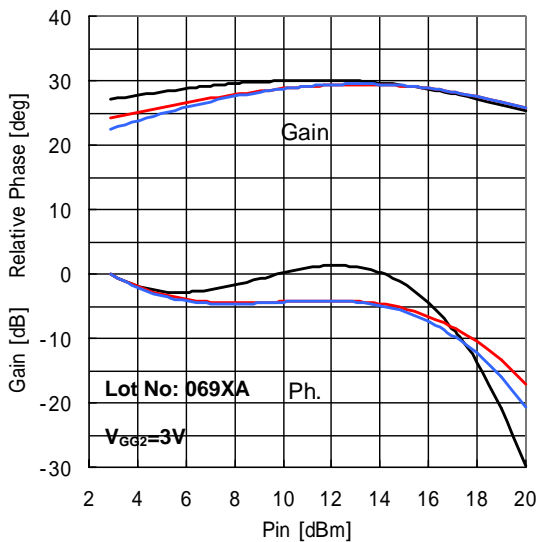
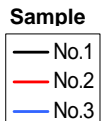
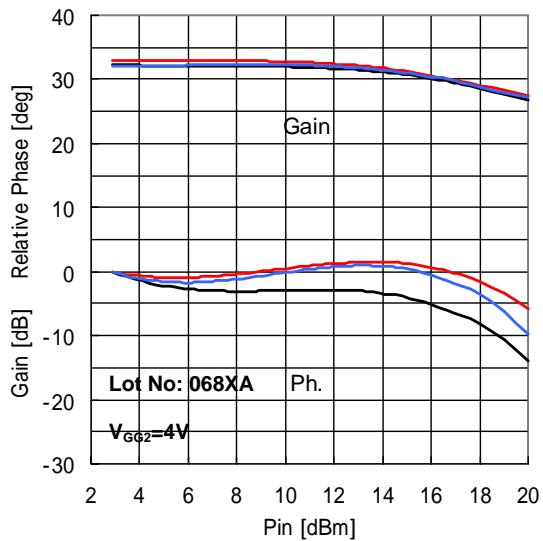
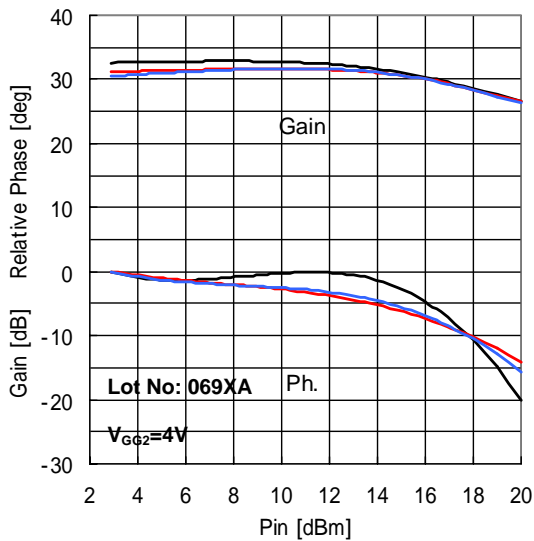
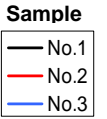
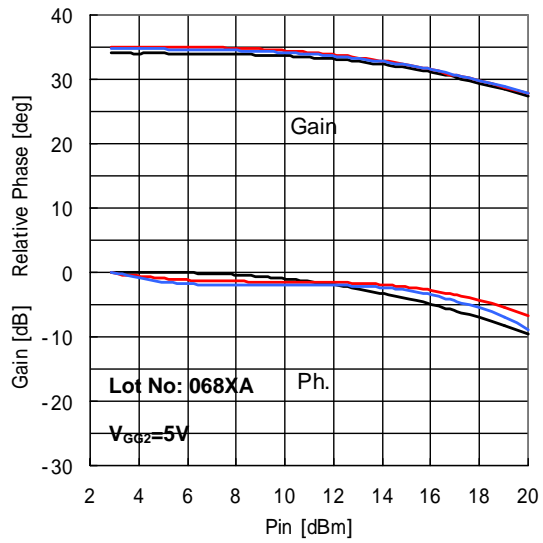
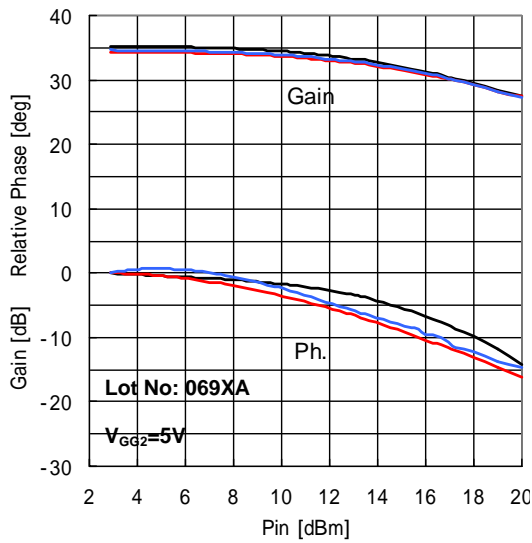
unless otherwise specified

Phase difference among individuals:

The phase difference among individual samples is compared with reference point that a phase of No.1-sample at $V_{gg2}=5.0\text{V}$, under every measure-frequencies, is defined as zero degree.

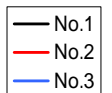
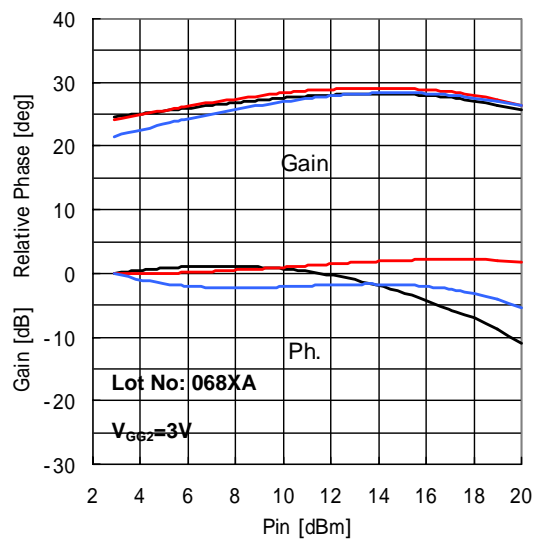
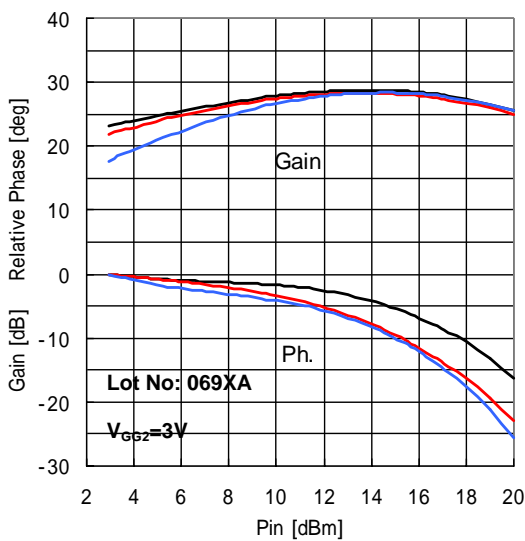
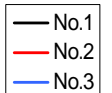
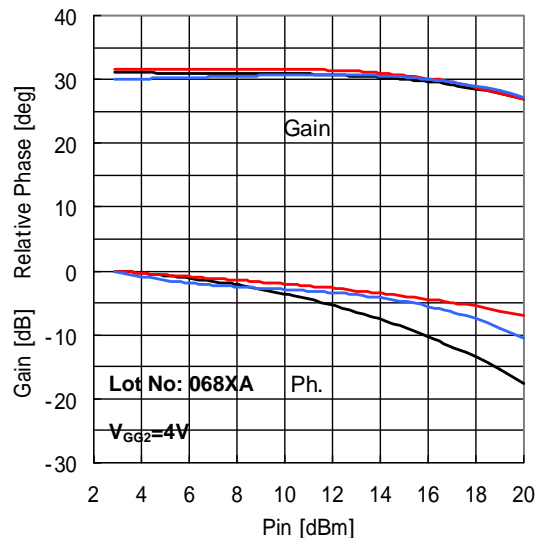
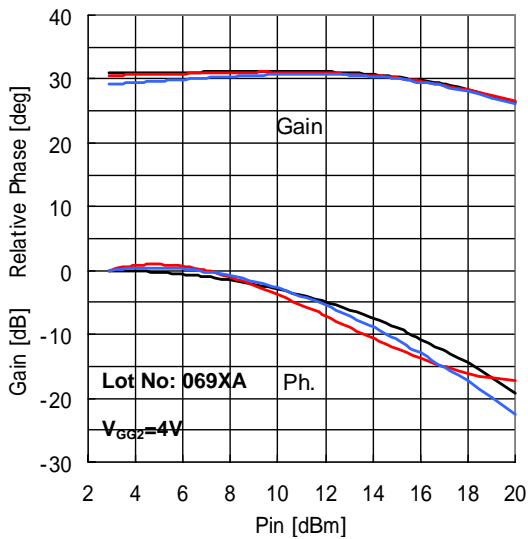
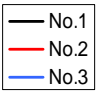
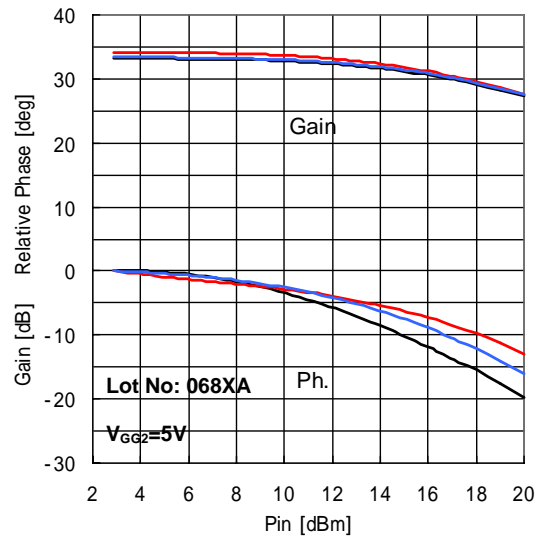
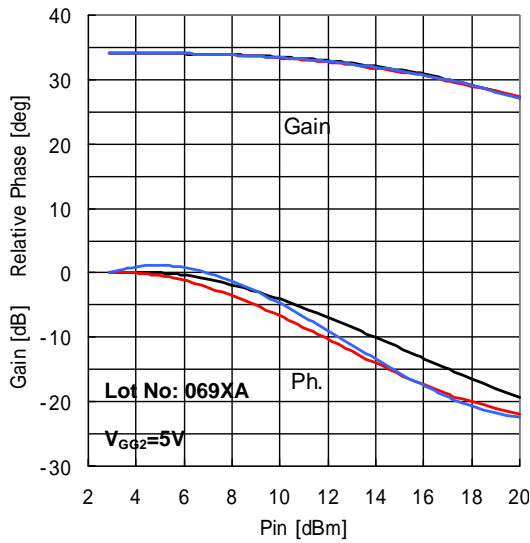
AM-AM & AM-PM for RA45H8994M1

Freq.: 896MHz



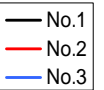
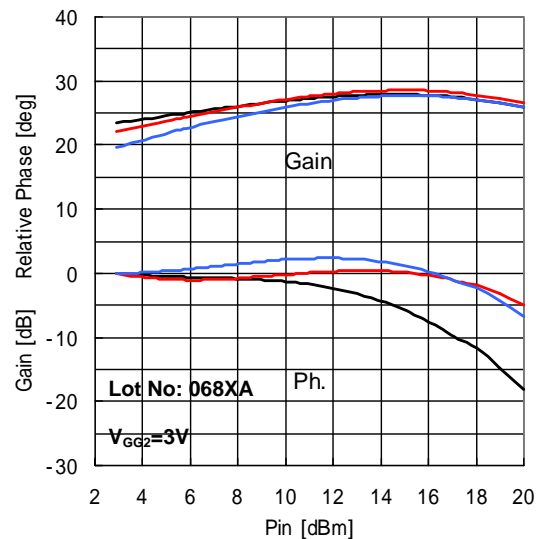
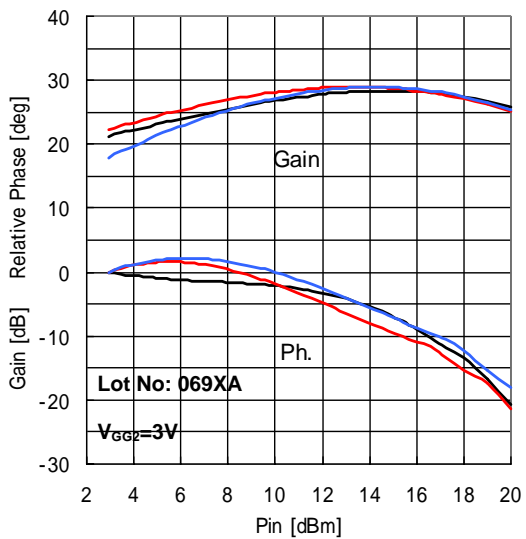
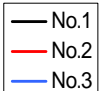
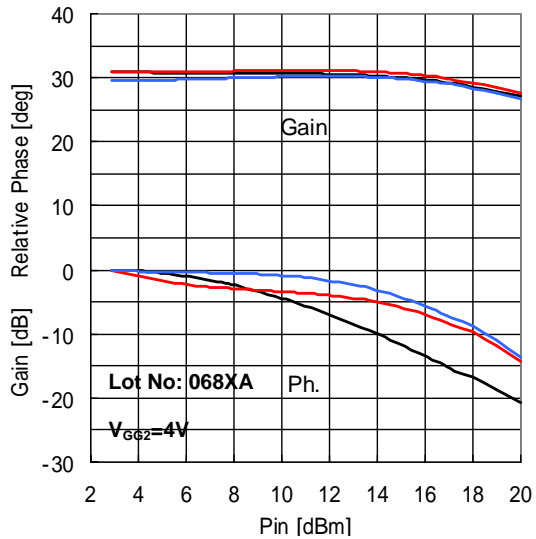
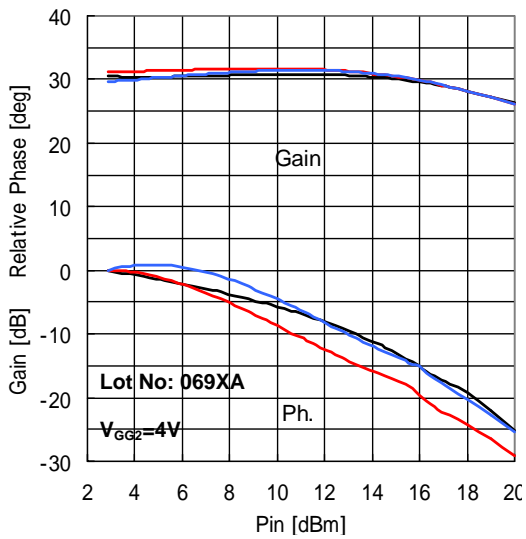
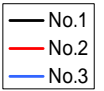
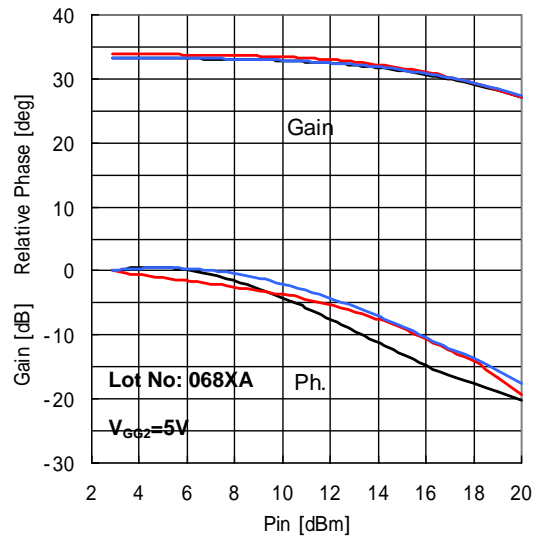
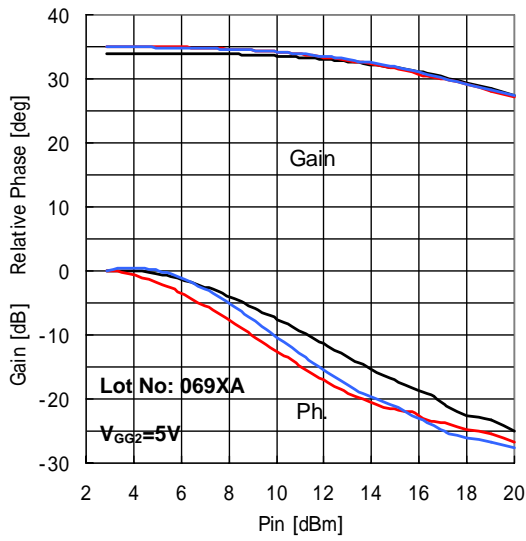
AM-AM & AM-PM for RA45H8994M1

Freq.: 920MHz



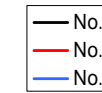
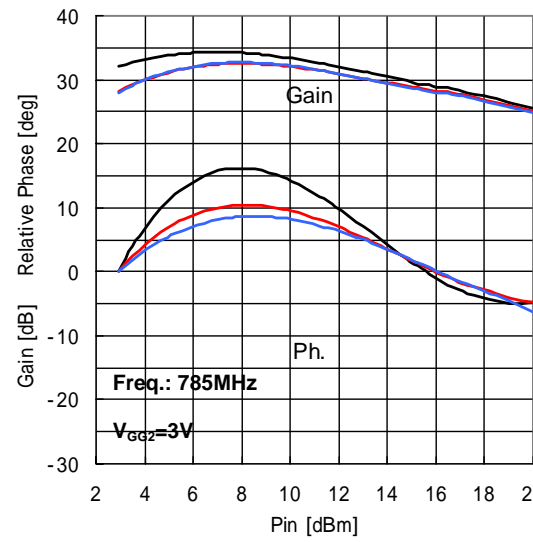
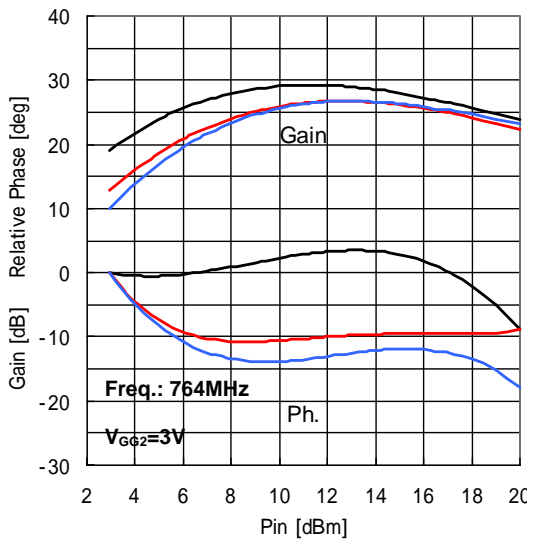
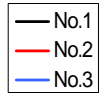
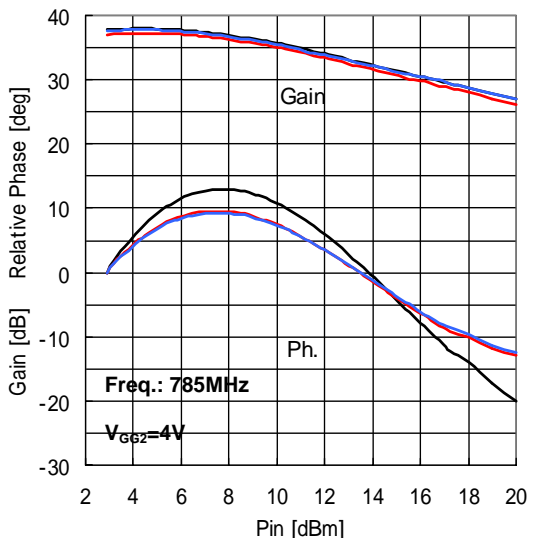
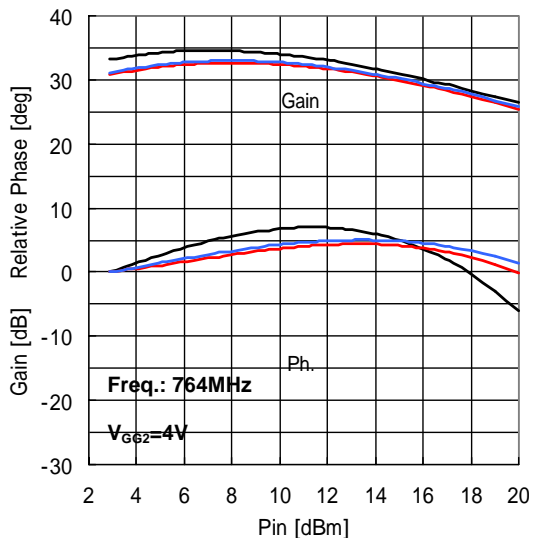
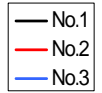
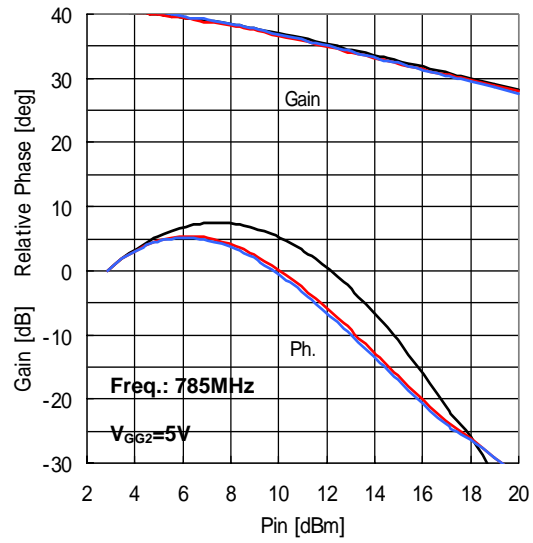
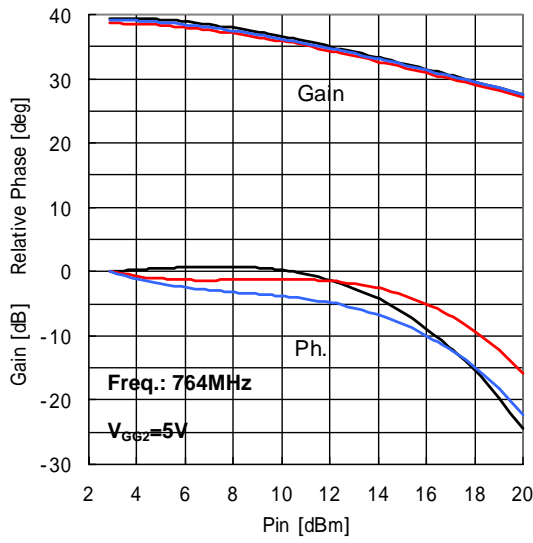
AM-AM & AM-PM for RA45H8994M1

Freq.: 941MHz



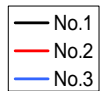
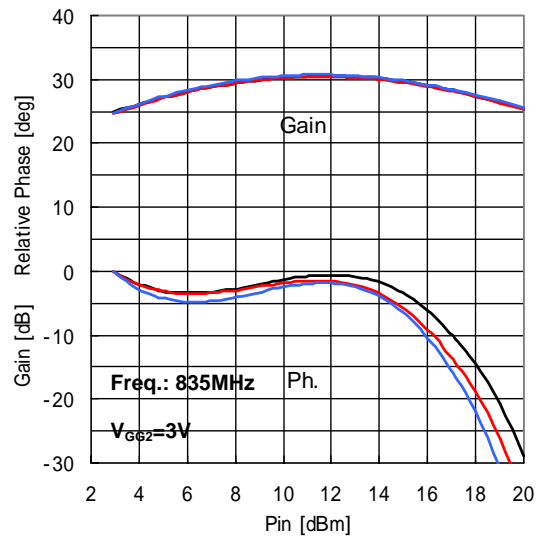
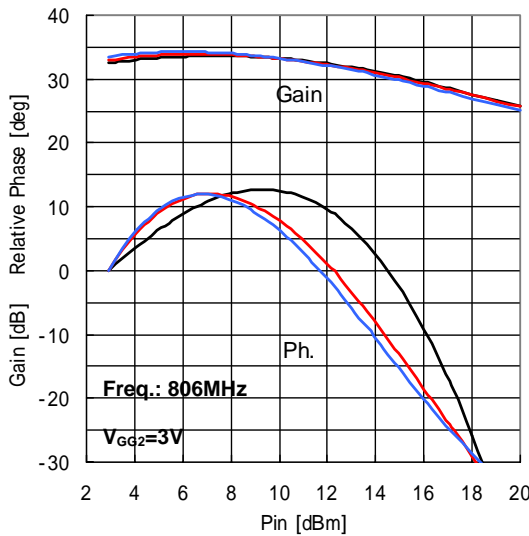
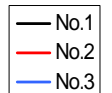
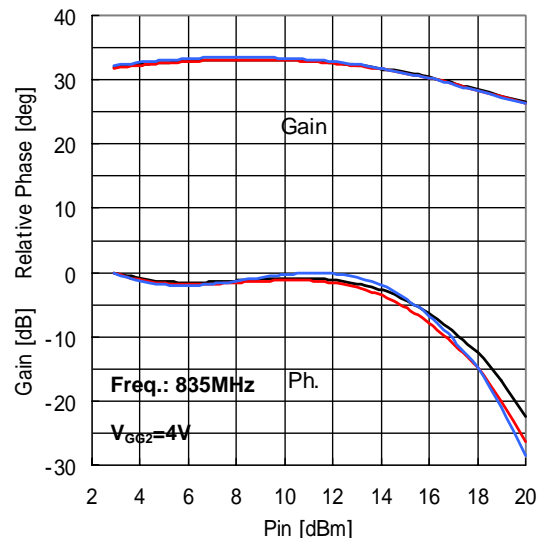
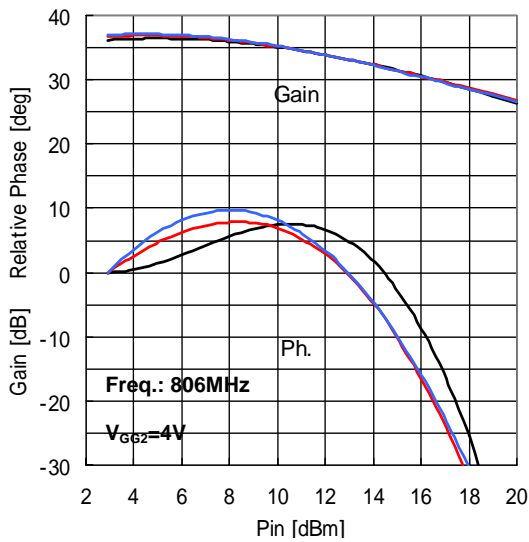
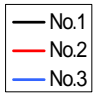
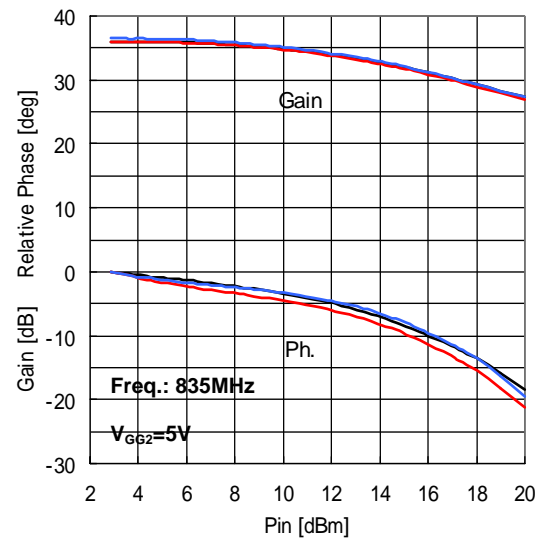
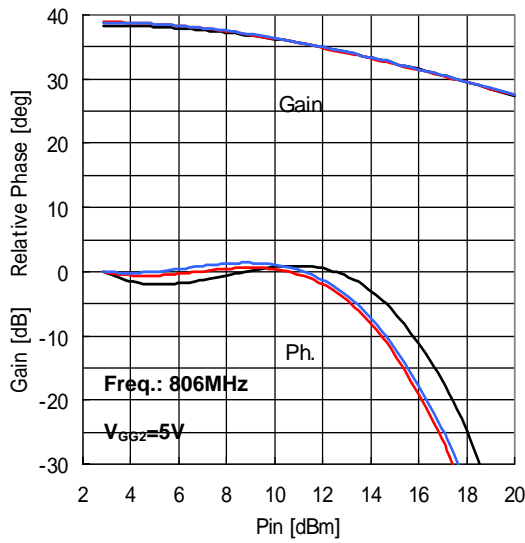
AM-AM & AM-PM for RA45H7687M1

Lot No : 06XXA



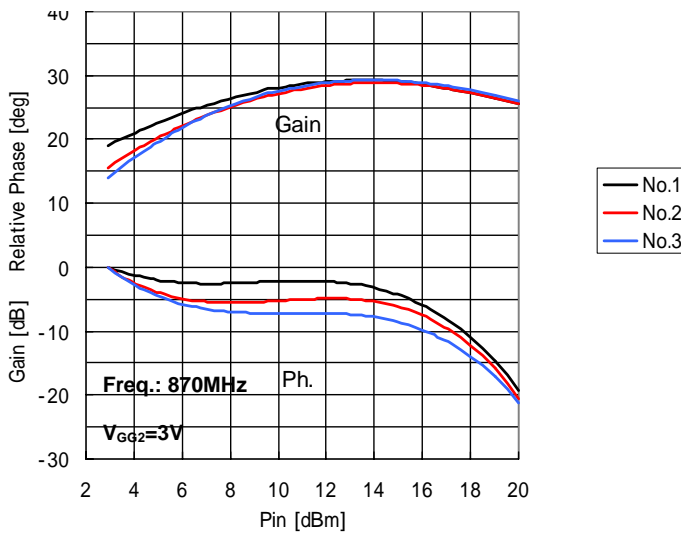
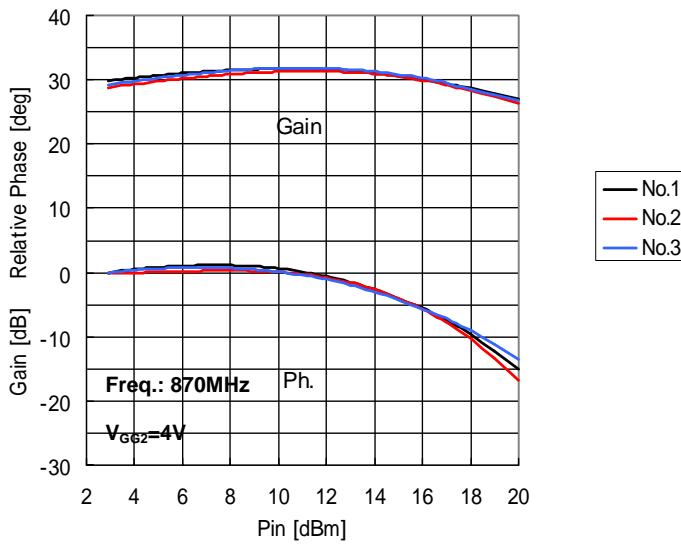
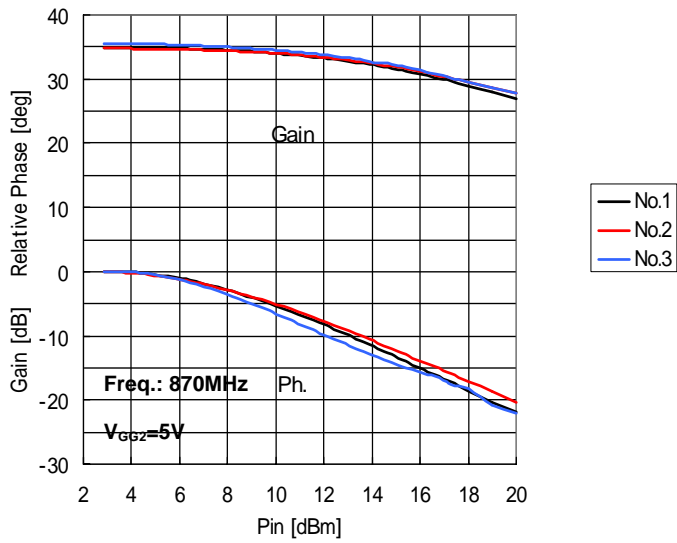
AM-AM & AM-PM for RA45H7687M1

Lot No : 06XXA

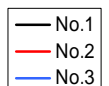
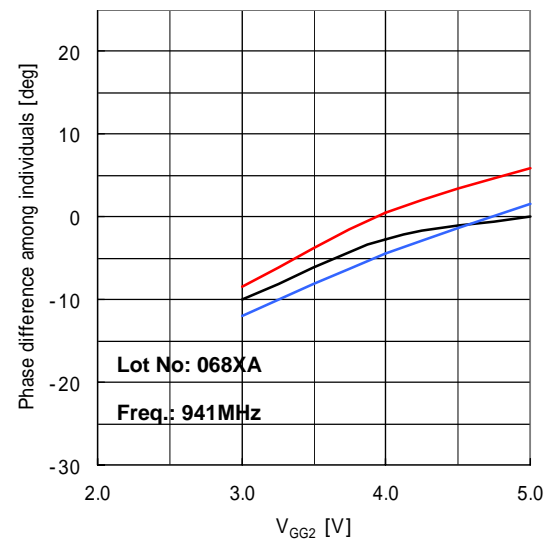
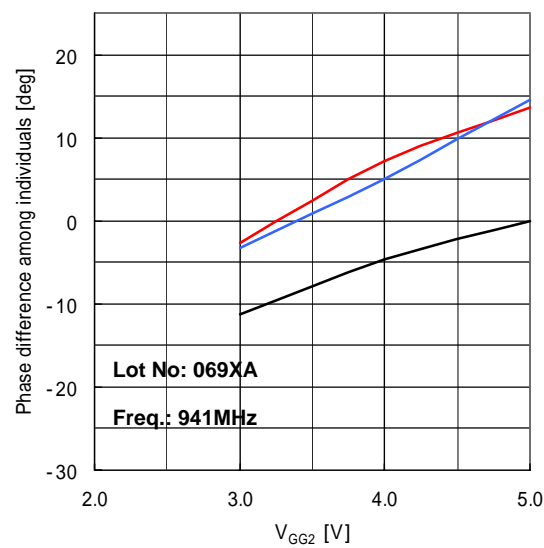
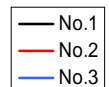
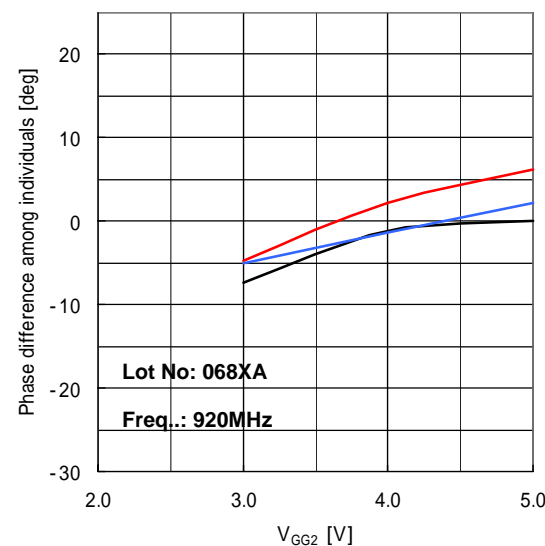
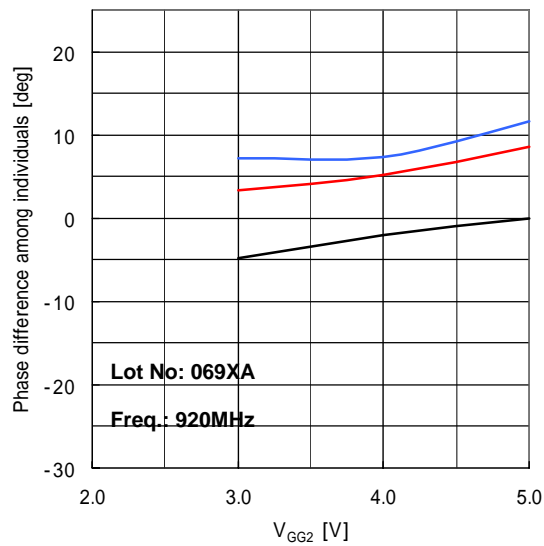
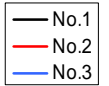
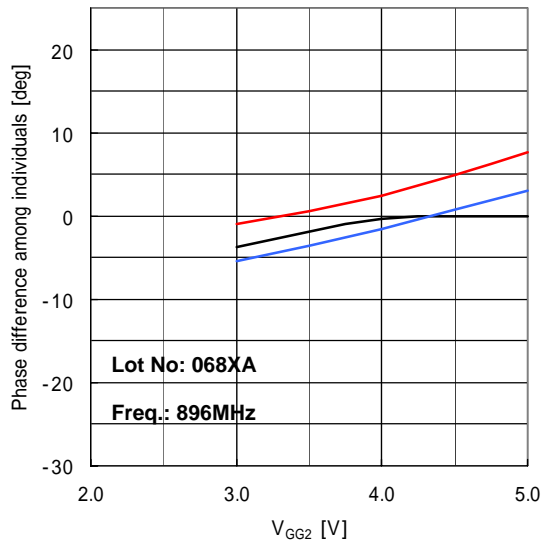
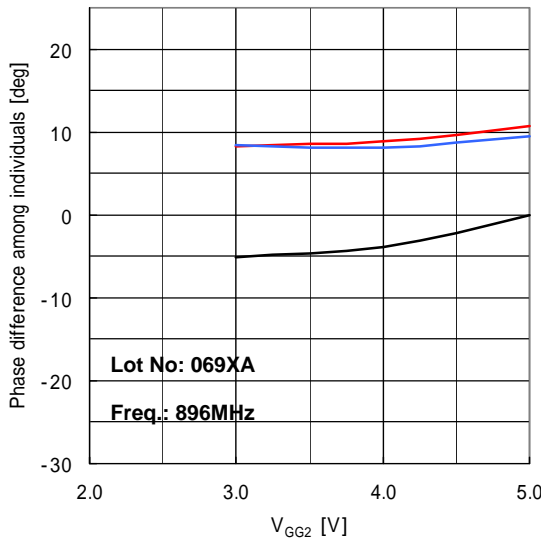


AM-AM & AM-PM for RA45H7687M1

Lot No : 06XXA



V_{gg2}-PM for RA45H8994M1



V_{GG2}-PM for RA45H7687M1

