

APPLICATION NOTE



RF POWER SEMICONDUCTORS

Document NO. AN-900-027-A
Date : 10th May. 2007
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Confirmed : S.Kametani
(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°C, Z_g=Z_l=50ohm, V_{dd}=12.8V, V_{gg1}=3.4V, V_{gg2}=5.0V

unless otherwise specified

Relative phase condition:

The phase, when Pin=3dBm is input for each of samples, fixes to zero degree.

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

Measure condition:

T_c=25°C, Z_g=Z_l=50ohm, V_{dd}=12.8V, V_{gg1}=3.4V, Pin=3dBm

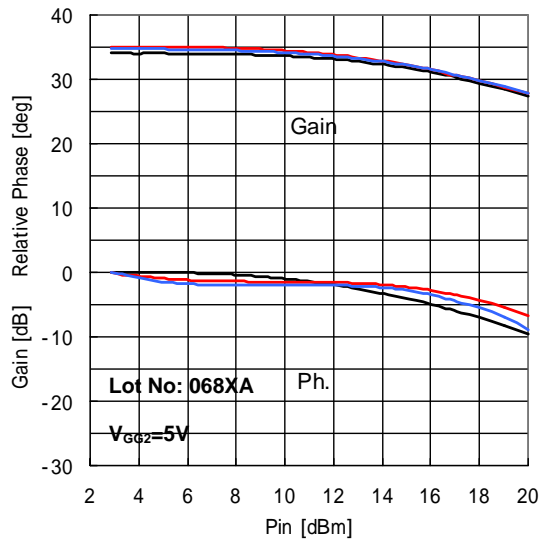
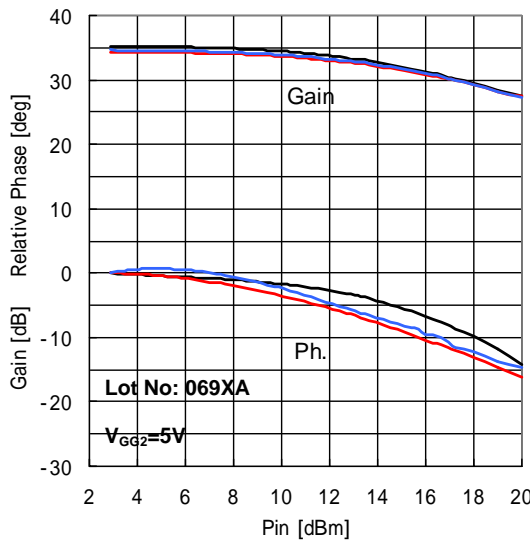
unless otherwise specified

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}=5.0V, under every measure-frequencies, is defined as zero degree.

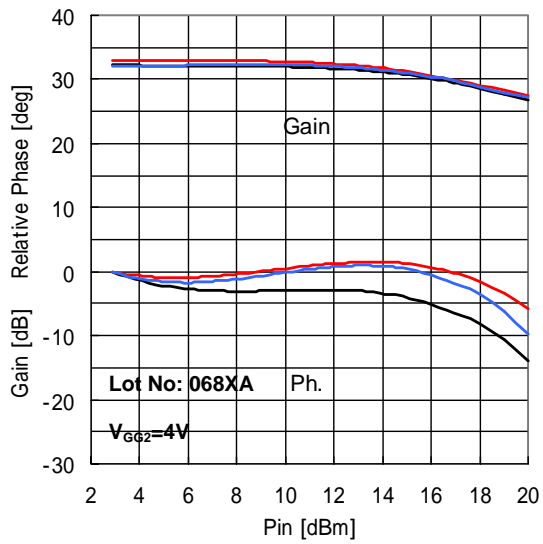
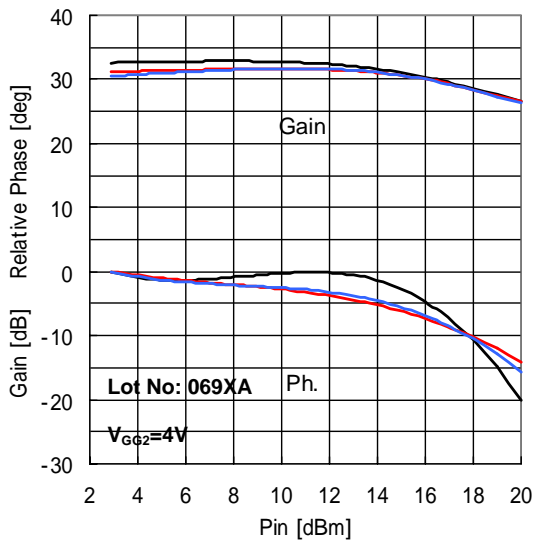
AM-AM & AM-PM for RA45H8994M1

Freq.: 896MHz



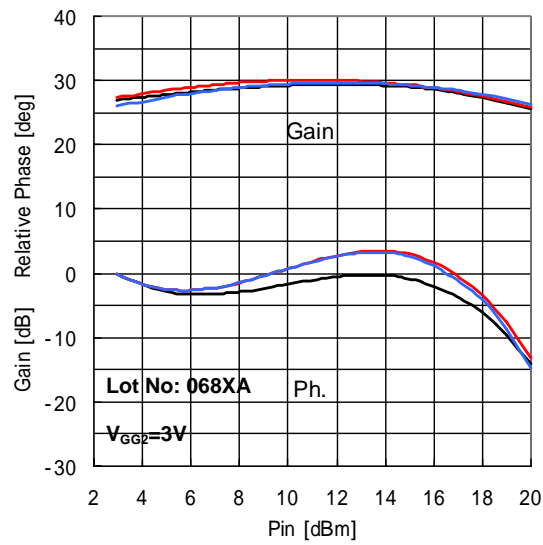
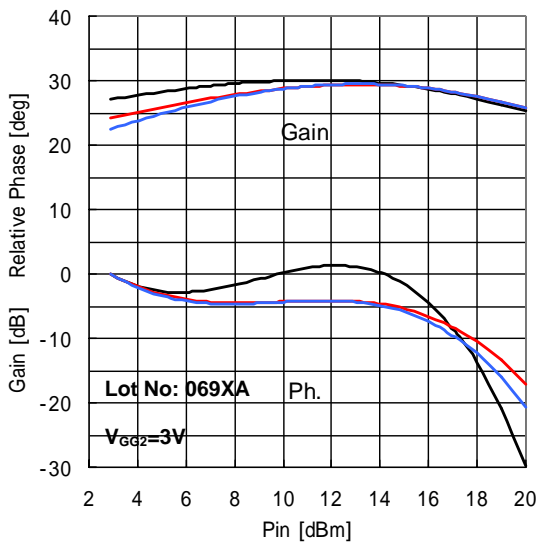
Sample

- No.1
- No.2
- No.3



Sample

- No.1
- No.2
- No.3

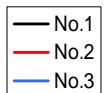
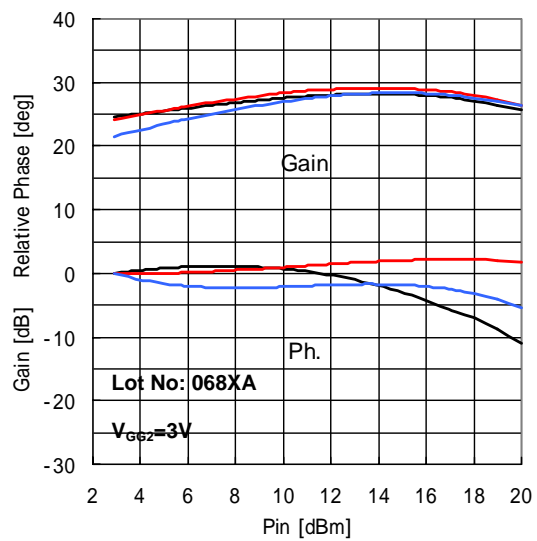
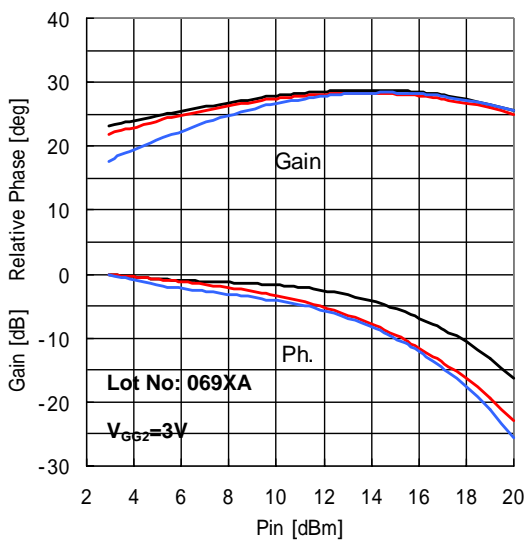
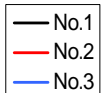
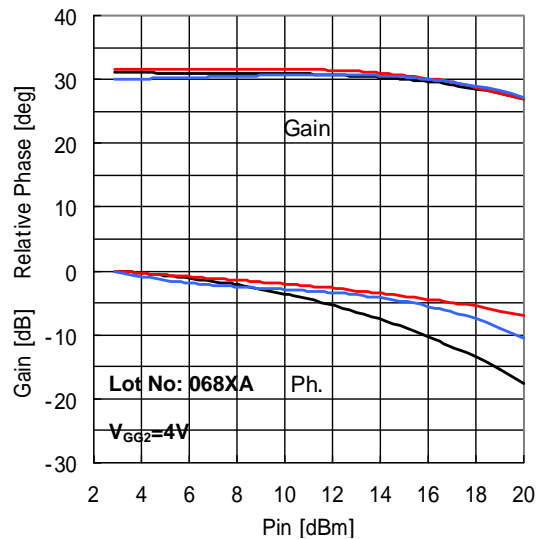
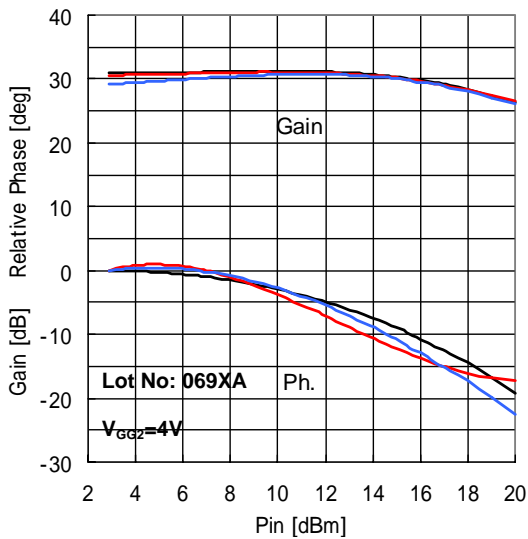
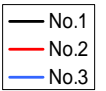
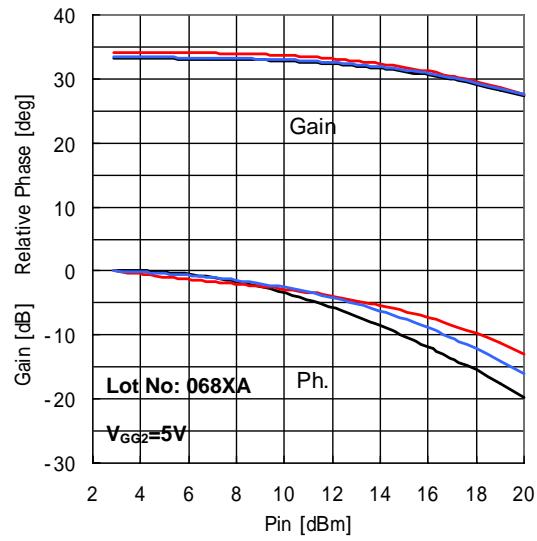
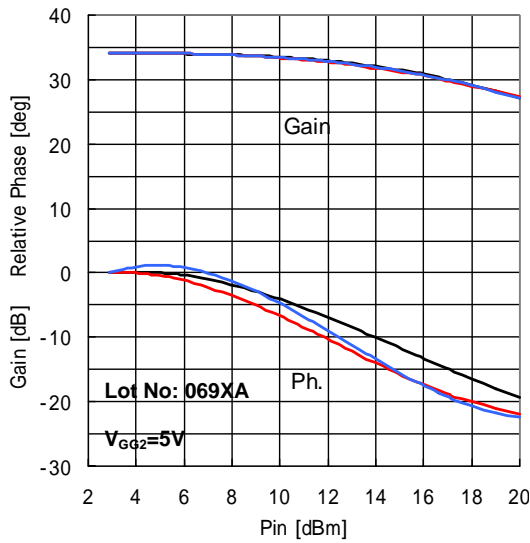


Sample

- No.1
- No.2
- No.3

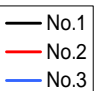
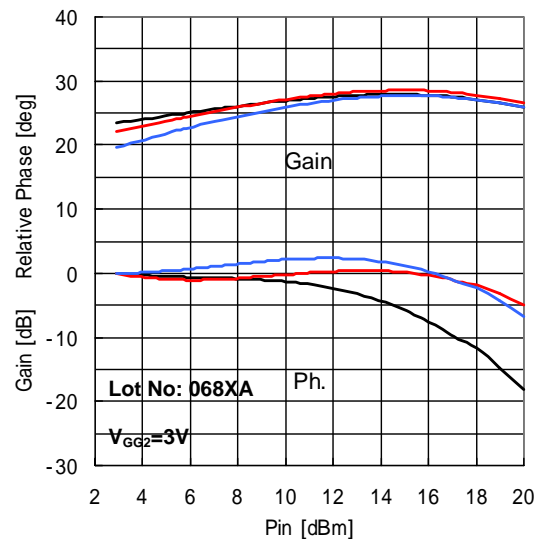
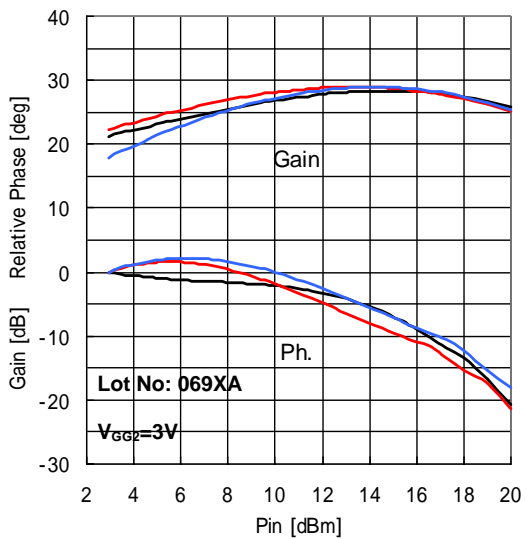
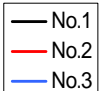
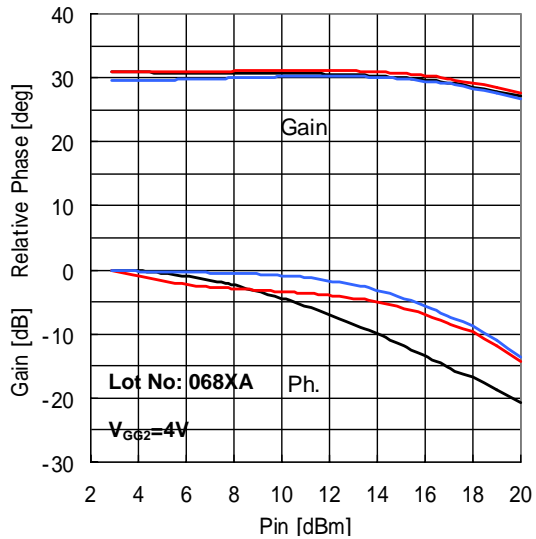
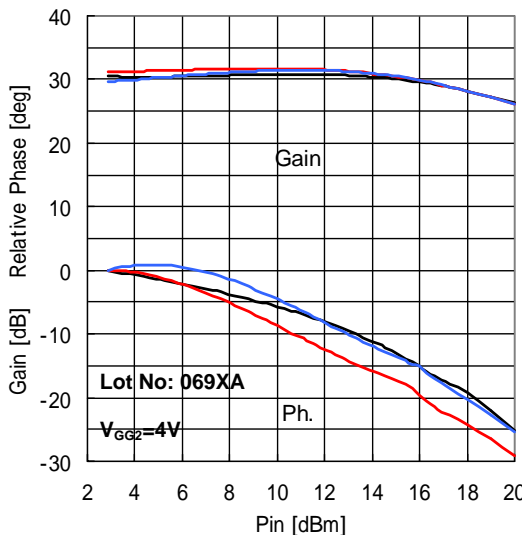
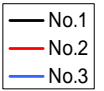
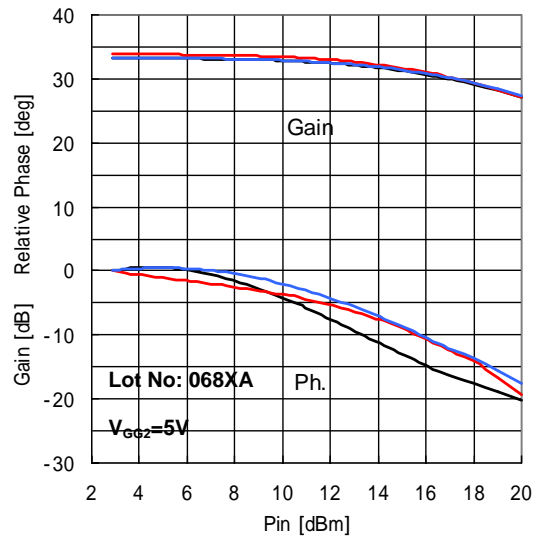
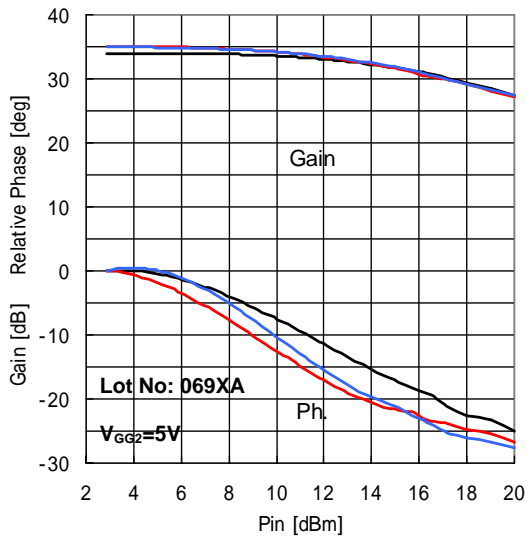
AM-AM & AM-PM for RA45H8994M1

Freq.: 920MHz



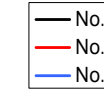
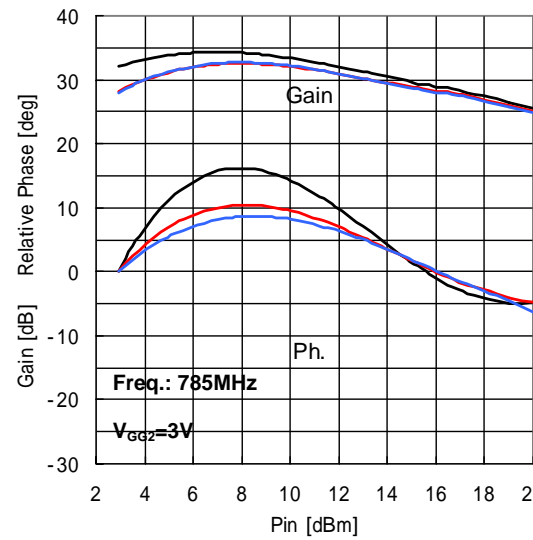
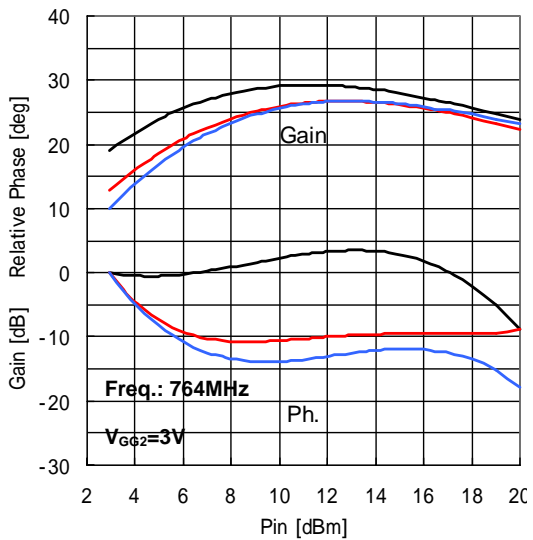
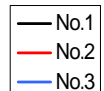
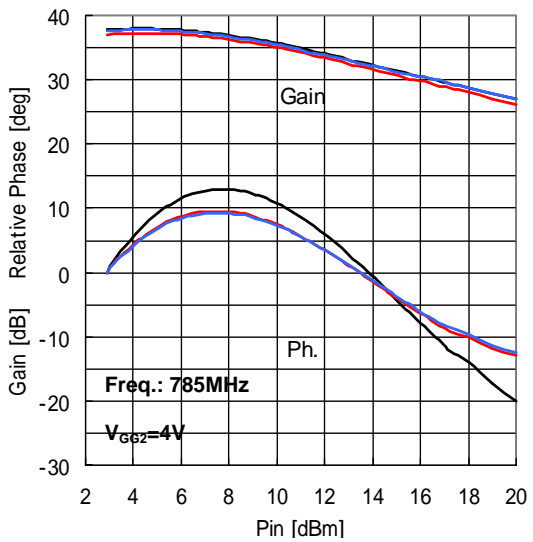
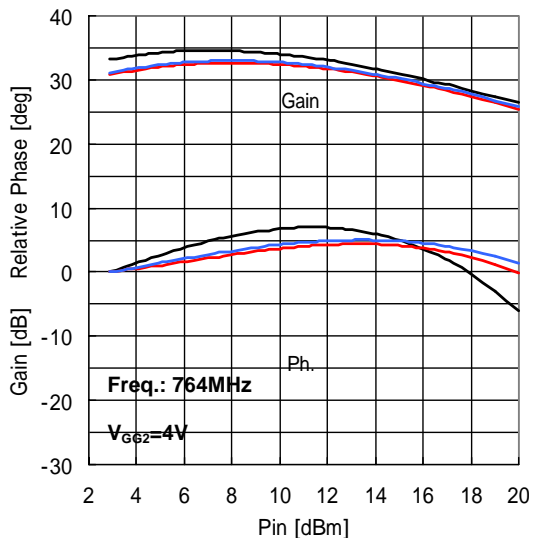
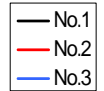
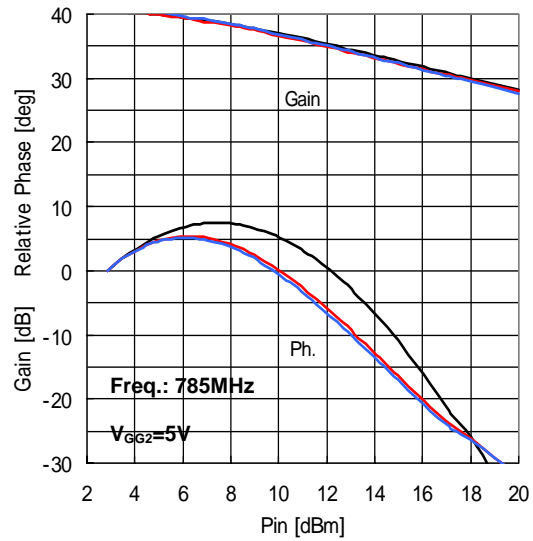
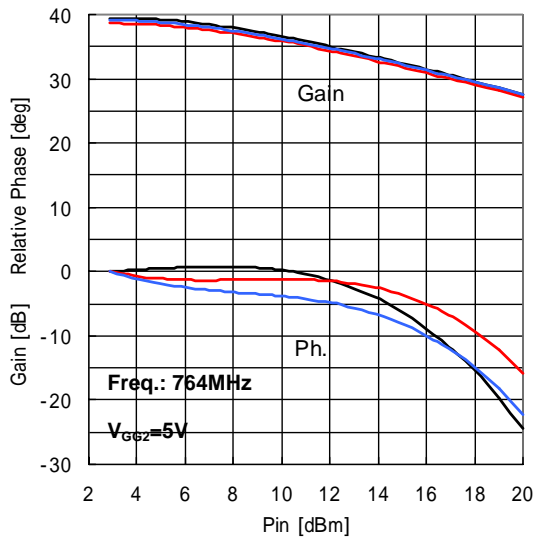
AM-AM & AM-PM for RA45H8994M1

Freq.: 941MHz



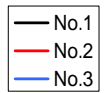
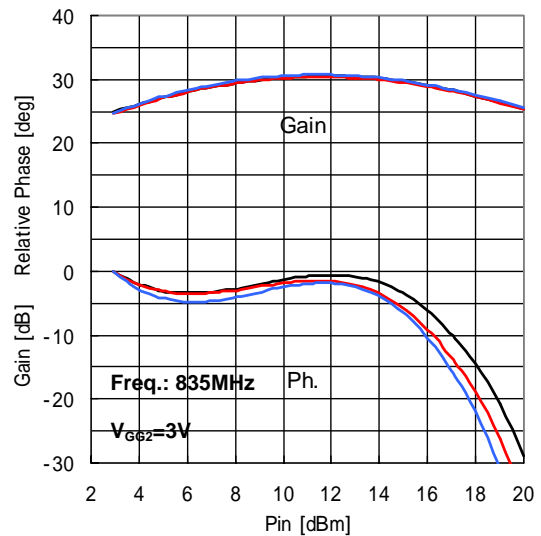
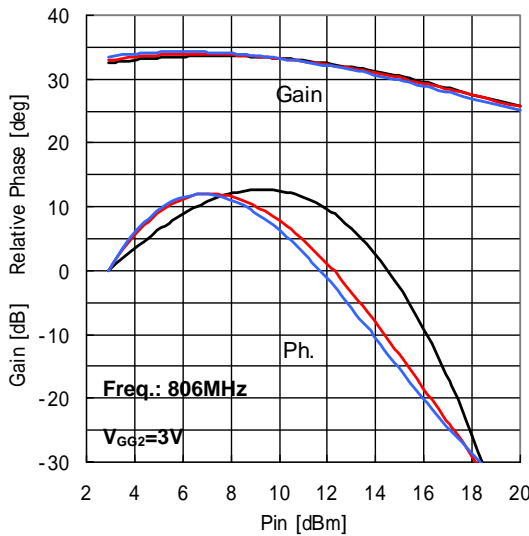
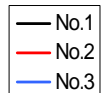
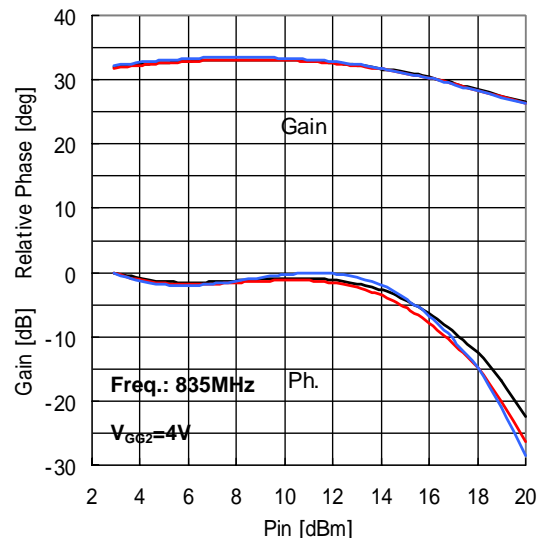
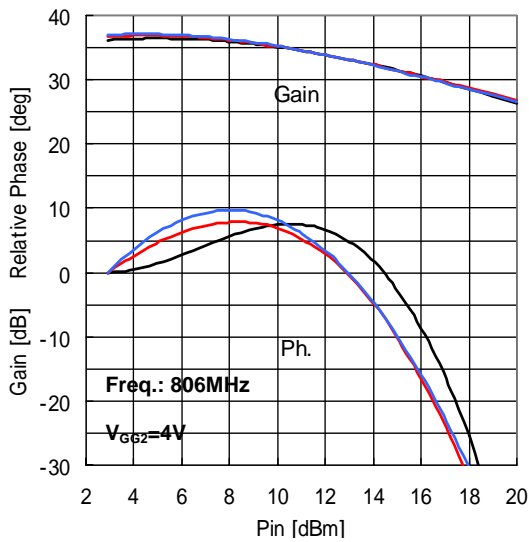
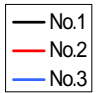
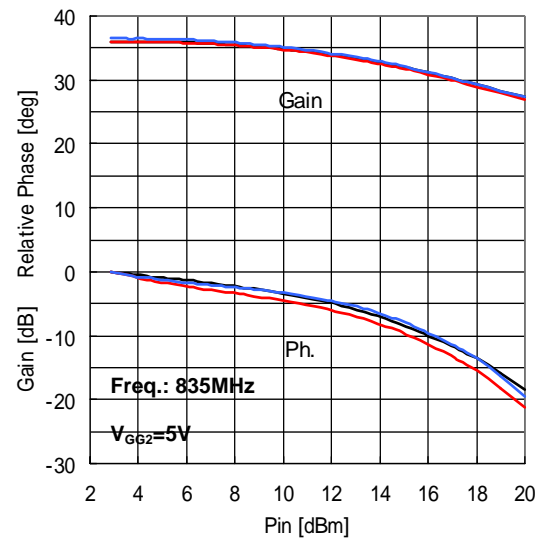
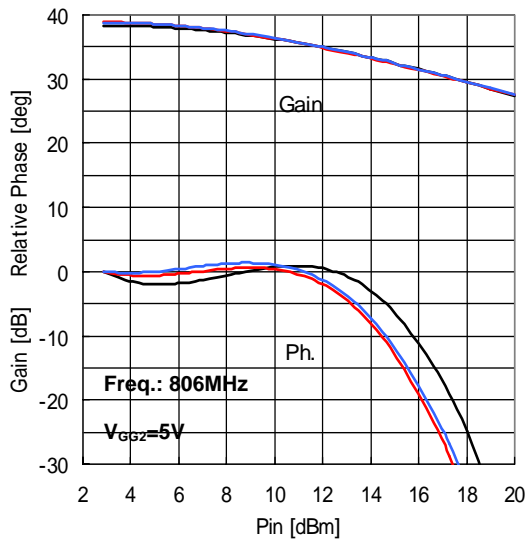
AM-AM & AM-PM for RA45H7687M1

Lot No : 06XXA



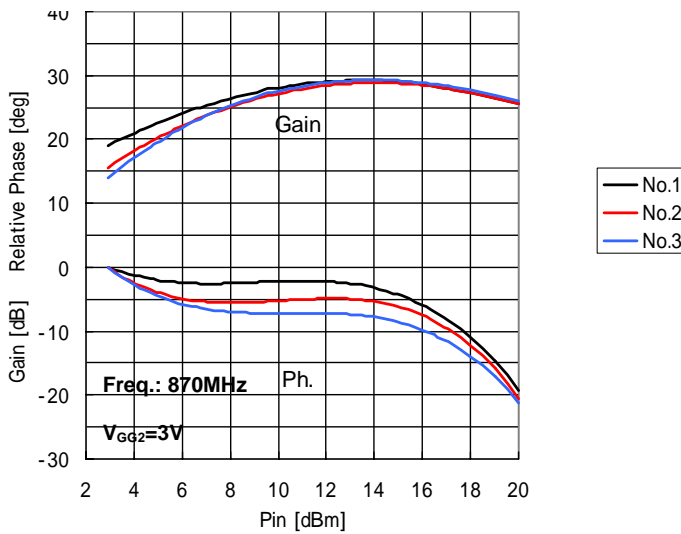
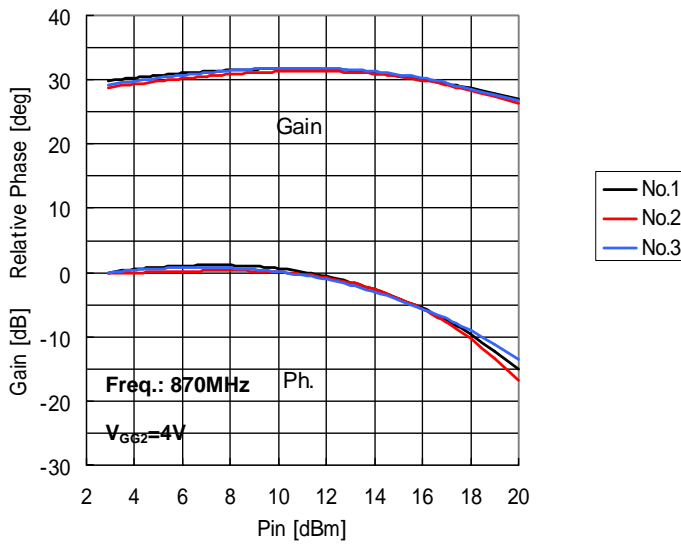
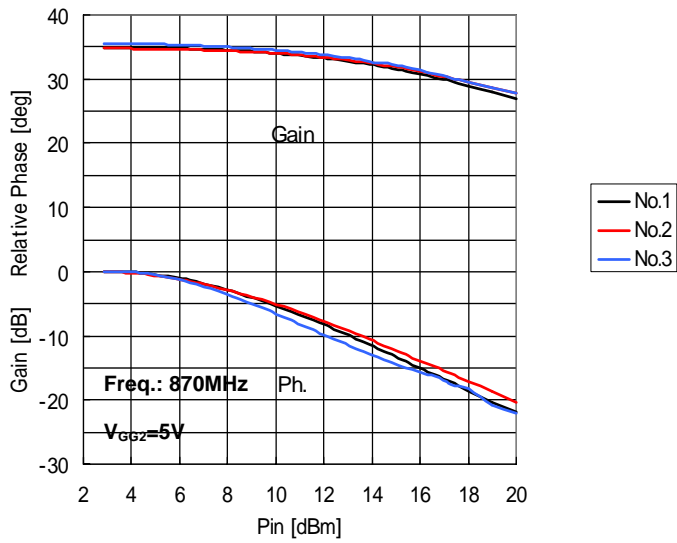
AM-AM & AM-PM for RA45H7687M1

Lot No : 06XXA

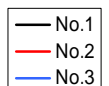
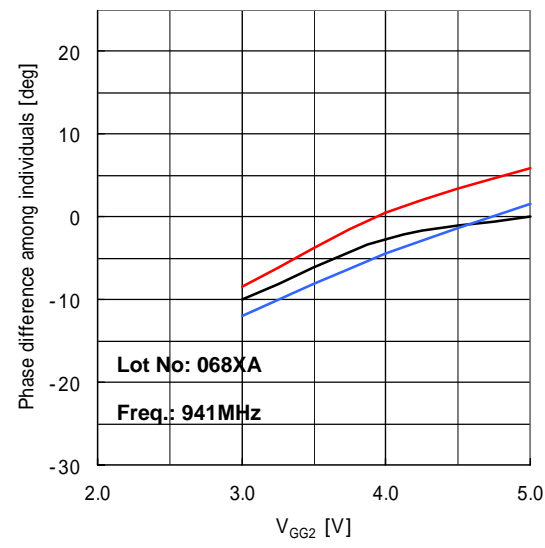
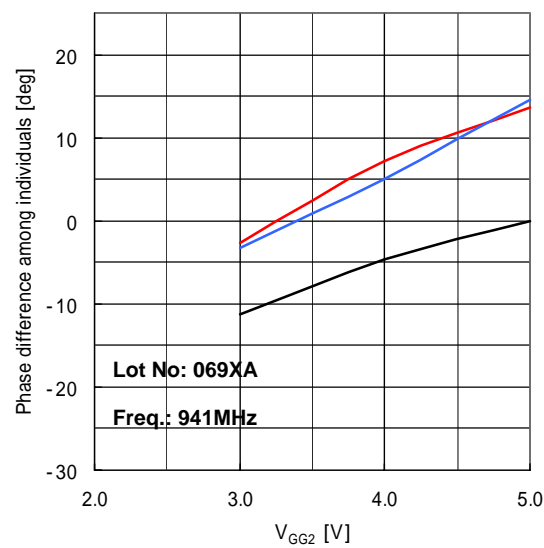
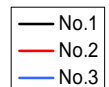
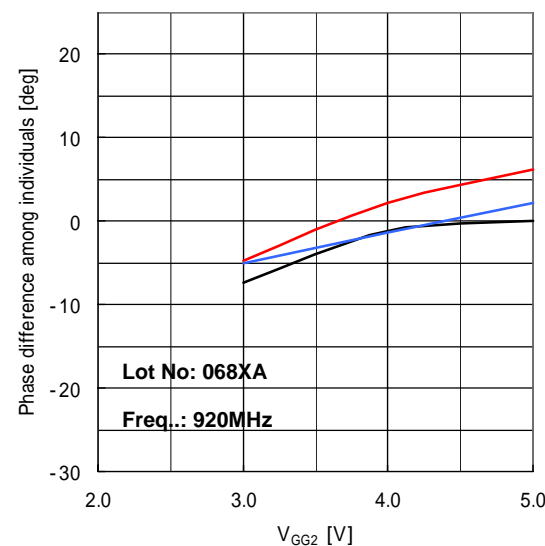
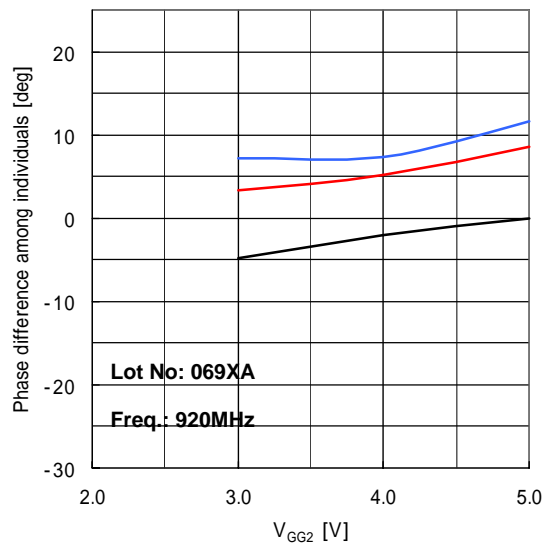
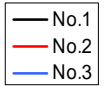
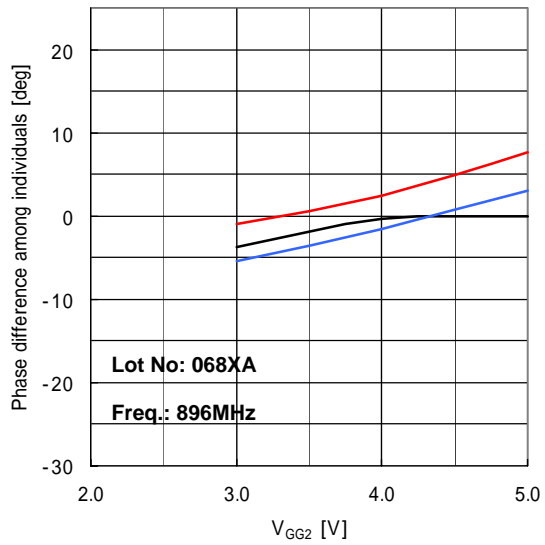
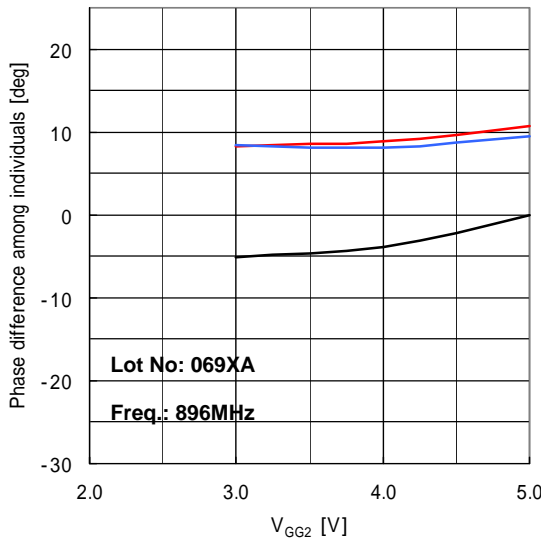


AM-AM & AM-PM for RA45H7687M1

Lot No : 06XXA



Vgg2-PM for RA45H8994M1



V_{GG2}-PM for RA45H7687M1

