Typical Performance Curves

I–V (VGS=0.1V PER STEP) (2)

Noise Figure vs IDS @ 0.9 GHz (1)

Gain vs IDS @ 0.9 GHz (1)

Gain vs IDS @ 2 GHz (1)

OIP3 vs IDS @ 2GHz (1)

Noise Figure vs IDS @ 2 GHz (1)

OIP3 vs IDS @ 2 GHz (1)

(1) Includes test board loss
(2) Measured using HP4155B semiconductor parameter analyzer
E-PHEMT SAV-551+

**Typical Performance Curves**

- **OIP3 vs IDS @ 0.9 GHz (1)**
- **P1dB vs IDS @ 2 GHz (1,2)**
- **P1dB vs IDS @ 0.9 GHz (1,2)**
- **NF vs FREQUENCY & TEMPERATURE (1)**
  - @ VDS=3V, IDS=15mA
  - VDS=3V, VDS=4V
- **GAIN vs FREQUENCY & TEMPERATURE (1)**
  - @ VDS=3V, IDS=15mA
- **OIP3 vs FREQUENCY & TEMPERATURE (1)**
  - @ VDS=3V, IDS=15mA
  - -45°C, -25°C, +85°C

(1) Includes test board loss
(2) Drain current was allowed to increase during compression measurement
Typical Performance Curves

P1dB vs FREQUENCY & TEMPERATURE (1,2)
@ VDS=3V, IDS=15mA

NF vs FREQUENCY & TEMPERATURE (1)
@ VDS=4V, IDS=15mA

GAIN vs FREQUENCY & TEMPERATURE (1)
@ VDS=4V, IDS=15mA

OIP3 vs FREQUENCY & TEMPERATURE (1)
@ VDS=4V, IDS=15mA

P1dB vs FREQUENCY & TEMPERATURE (1,2)
@ VDS=4V, IDS=15mA

(1) Includes test board loss
(2) Drain current was allowed to increase during compression measurement
Typical Performance Curves

1. $F_{\text{MIN}}$ vs $I_D$ @ 0.9 GHz
   - $V_{DS} = 2V$
   - $V_{DS} = 3V$
   - $V_{DS} = 4V$

2. $F_{\text{MIN}}$ vs $I_D$ @ 2 GHz
   - $V_{DS} = 2V$
   - $V_{DS} = 3V$
   - $V_{DS} = 4V$

3. $F_{\text{MIN}}$ vs Frequency @ $V_{DS} = 3V$
   - 10 mA
   - 15 mA
   - 20 mA

(1) $F_{\text{MIN}}$ is minimum Noise Figure