

### Performance

- Technology: 0.35um Power HEMT
- Frequency: 2.6GHz
- Typical Pout : 54dBm
- Typical Gain: 13dB
- Typical PAE: 60%
- Bias: 50V/-4~-2V
- Impedance: 50Ω
- Package: Metal Ceramic



### Electrical Specifications (TA=25°C, Vd=50V, Vg= -4~-2V, Id≈0.8A, F: 2.6GHz, PL=200us, D.C=20%)

| Symbol | Parameter              | Min  | Typical | Max  | Unit |
|--------|------------------------|------|---------|------|------|
| Pout   | Output Power           | -    | 54      | -    | dBm  |
| Gp     | Power Gain             | -    | 13      | -    | dB   |
| ηadd   | Power Added Efficiency | -    | 60      | -    | %    |
| ΔGp    | Gain Flatness          | -0.8 | -       | +0.8 | dB   |
| Rth    | Thermal Resistance     | -    | -       | 0.38 | °C/W |

### Typical Test Data

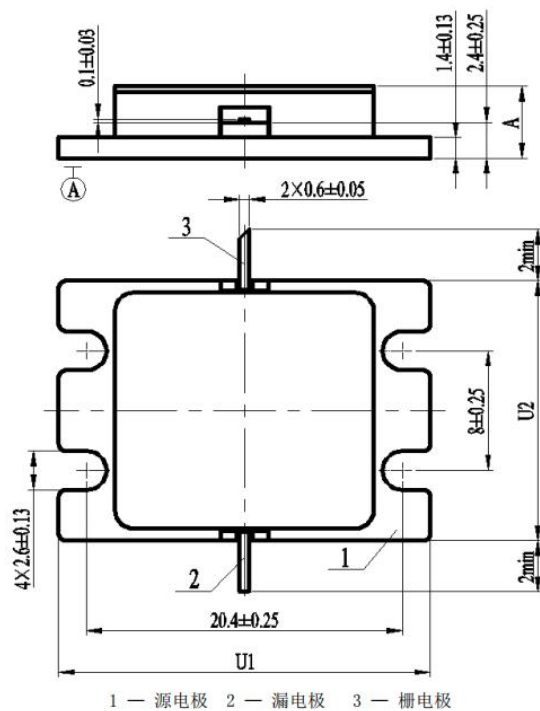
| Test Conditions: f=2.6GHz, Pin=41dBm, Vg= -1.9V, Vd=50V |      |          |          |
|---------------------------------------------------------|------|----------|----------|
| Pout (W)                                                | I(A) | ηadd (%) | Gain(dB) |
| 270                                                     | 0.84 | 63.7     | 13.3     |

### Absolute Max Ratings (TA=25°C)

| Symbol | Parameter            | Value     | Remark     |
|--------|----------------------|-----------|------------|
| Vd     | Drain Voltage        | 80V       |            |
| Vg     | Grid Voltage         | -5V       |            |
| Pd     | DC Dissipation       | 100W      | 25°C       |
| Tch    | Channel Temperature  | 225°C     | <b>【1】</b> |
| Tm     | Mounting Temperature | 300°C     |            |
| Tstg   | Storage Temperature  | -65~150°C |            |

**【1】 Exceeding any one or combination of these limits may cause permanent damage.**

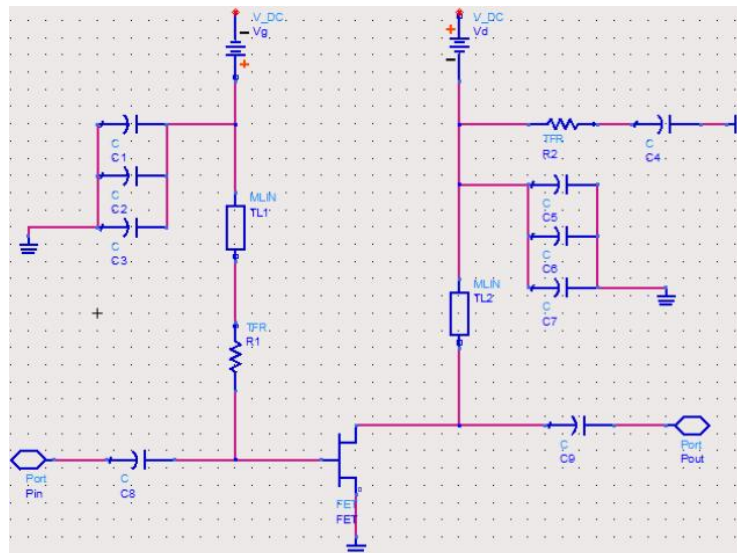
### Outline Drawing



### Dimension Symbol

| Symbol | Value (unit: mm) |       |
|--------|------------------|-------|
|        | Min.             | Max.  |
| U1     | 23.80            | 24.20 |
| U2     | 17.20            | 17.60 |
| A      | -                | 5.2   |

### Application Circuit



### Note:

- (1) This product is an internal matching power tube.
- (2) When powering on, first add  $V_g = -1.9V$ , then add  $V_d = 48V$ .
- (3) The power tube is an electrostatic sensitive device. Pay attention to relevant electrostatic protection measures when using and packaging.