

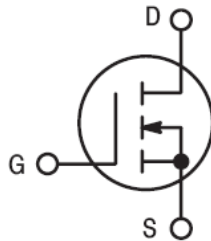
The RF MOSFET Line 80W, 175MHz, 28V

Rev. V1

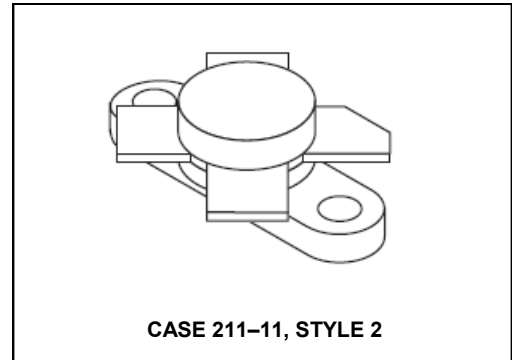
Designed for broadband commercial and military applications up to 200 MHz frequency range. The high-power, high-gain and broadband performance of this device make possible solid state transmitters for FM broadcast or TV channel frequency bands.

N-Channel enhancement mode MOSFET

- Guaranteed performance at 150 MHz, 28 V:
Output power = 80 W
Gain = 11 dB (13 dB typ.)
Efficiency = 55% min. (60% typ.)
- Low thermal resistance
- Ruggedness tested at rated output power
- Nitride passivated die for enhanced reliability
- Low noise figure — 1.5 dB typ at 2.0 A, 150 MHz
- Excellent thermal stability; suited for Class A operation



Product Image



MAXIMUM RATINGS

| Rating | Symbol | Value | Unit |
|--|-----------|-----------------|------------------------------|
| Drain-Source Voltage | V_{DS} | 65 | Vdc |
| Drain-Gate Voltage | V_{DGO} | 65 | Vdc |
| Gate-Source Voltage | V_{GS} | ± 40 | Vdc |
| Drain Current — Continuous | I_D | 9.0 | Adc |
| Total Device Dissipation @ $T_C = 25^\circ\text{C}$ Derate above 25°C | P_D | 220 1.26 | Watts W/ $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -65 to $+150$ | $^\circ\text{C}$ |
| Operating Temperature Range | T_J | 200 | $^\circ\text{C}$ |

THERMAL CHARACTERISTICS

| Characteristic | Symbol | Max | Unit |
|--------------------------------------|-----------------|-----|--------------------|
| Thermal Resistance, Junction to Case | $R_{\theta JC}$ | 0.8 | $^\circ\text{C/W}$ |

ELECTRICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|----------------|--------|-----|-----|-----|------|
|----------------|--------|-----|-----|-----|------|

OFF CHARACTERISTICS

| | | | | | |
|--|---------------|----|---|-----|---------------|
| Drain-Source Breakdown Voltage ($V_{DS} = 0$ V, $V_{GS} = 0$ V) $I_D = 50$ mA | $V_{(BR)DSS}$ | 65 | — | — | V |
| Zero Gate Voltage Drain Current ($V_{DS} = 28$ V, $V_{GS} = 0$ V) | I_{DSS} | — | — | 2.0 | mA |
| Gate-Source Leakage Current ($V_{GS} = 40$ V, $V_{DS} = 0$ V) | I_{GSS} | — | — | 1.0 | μA |

ON CHARACTERISTICS

| | | | | | |
|--|--------------|-----|-----|-----|------|
| Gate Threshold Voltage ($V_{DS} = 10$ V, $I_D = 50$ mA) | $V_{GS(th)}$ | 1.0 | 3.0 | 6.0 | V |
| Drain-Source On-Voltage ($V_{DS(on)}$, $V_{GS} = 10$ V, $I_D = 3.0$ A) | $V_{DS(on)}$ | — | — | 1.4 | V |
| Forward Transconductance ($V_{DS} = 10$ V, $I_D = 2.0$ A) | g_{fs} | 1.8 | 2.2 | — | mhos |

(continued)

NOTE — CAUTION — MOS devices are susceptible to damage from electrostatic charge. Reasonable precautions in handling and packaging MOS devices should be observed.

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80W, 175MHz, 28V

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ELECTRICAL CHARACTERISTICS — continued ($T_C = 25^\circ\text{C}$ unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|----------------|--------|-----|-----|-----|------|
|----------------|--------|-----|-----|-----|------|

DYNAMIC CHARACTERISTICS

| | | | | | |
|--|-----------|---|-----|---|----|
| Input Capacitance ($V_{DS} = 28\text{ V}$, $V_{GS} = 0\text{ V}$, $f = 1.0\text{ MHz}$) | C_{iss} | — | 110 | — | pF |
| Output Capacitance ($V_{DS} = 28\text{ V}$, $V_{GS} = 0\text{ V}$, $f = 1.0\text{ MHz}$) | C_{oss} | — | 105 | — | pF |
| Reverse Transfer Capacitance ($V_{DS} = 28\text{ V}$, $V_{GS} = 0\text{ V}$, $f = 1.0\text{ MHz}$) | C_{rss} | — | 10 | — | pF |

FUNCTIONAL CHARACTERISTICS

| | | | | | |
|--|-----------|--------------------------------|-------------|---|------|
| Noise Figure ($V_{DD} = 28\text{ V}$, $f = 150\text{ MHz}$, $I_{DQ} = 50\text{ mA}$) | NF | — | 1.5 | — | dB |
| Common Source Power Gain ($V_{DD} = 28\text{ V}$, $P_{out} = 80\text{ W}$, $f = 150\text{ MHz}$, $I_{DQ} = 50\text{ mA}$) | G_{ps} | 11 | 13 | — | dB |
| Drain Efficiency ($V_{DD} = 28\text{ V}$, $P_{out} = 80\text{ W}$, $f = 150\text{ MHz}$, $I_{DQ} = 50\text{ mA}$) | η | 55 | 60 | — | % |
| Electrical Ruggedness ($V_{DD} = 28\text{ V}$, $P_{out} = 80\text{ W}$, $f = 150\text{ MHz}$, $I_{DQ} = 50\text{ mA}$) Load VSWR 30:1 at all phase angles | ψ | No Degradation in Output Power | | | |
| Series Equivalent Input Impedance ($V_{DD} = 28\text{ V}$, $P_{out} = 80\text{ W}$, $f = 150\text{ MHz}$, $I_{DQ} = 50\text{ mA}$) | Z_{in} | — | $2.99-j4.5$ | — | Ohms |
| Series Equivalent Output Impedance ($V_{DD} = 28\text{ V}$, $P_{out} = 80\text{ W}$, $f = 150\text{ MHz}$, $I_{DQ} = 50\text{ mA}$) | Z_{out} | — | $2.68-j1.3$ | — | Ohms |

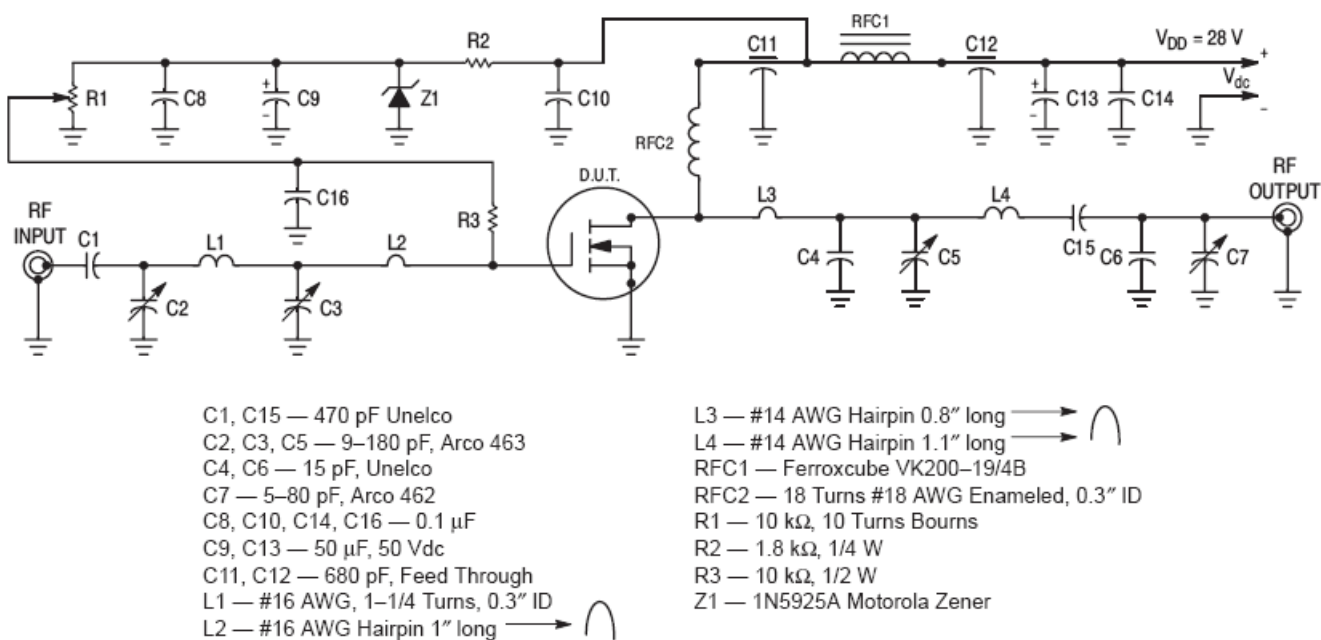


Figure 1. 150 MHz Test Circuit

TYPICAL CHARACTERISTICS

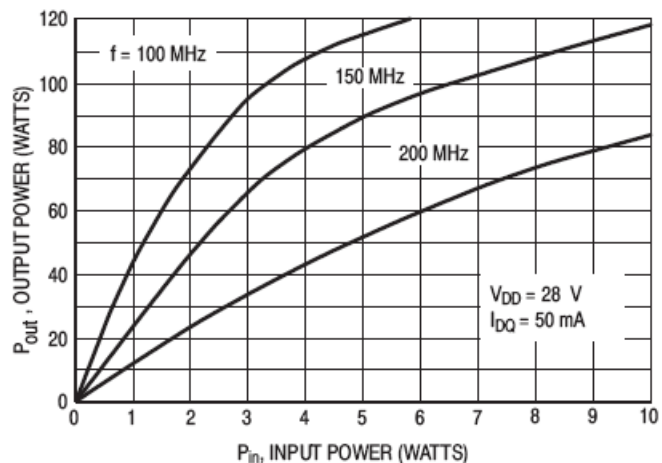


Figure 2. Output Power versus Input Power

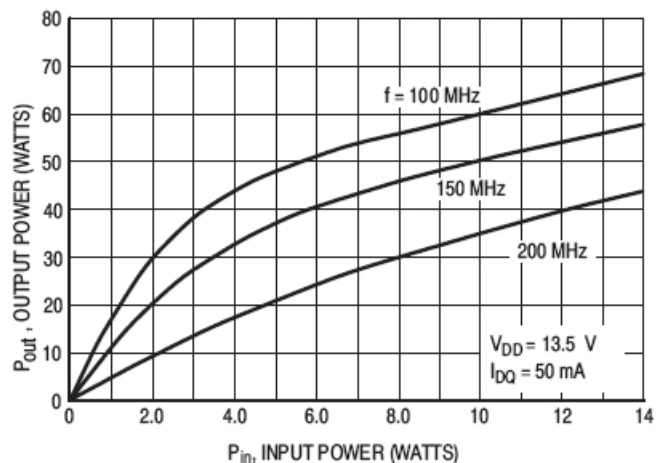


Figure 3. Output Power versus Input Power

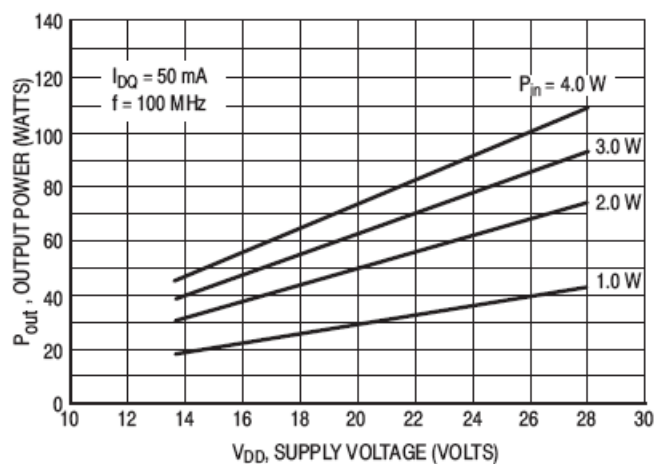


Figure 4. Output Power versus Supply Voltage

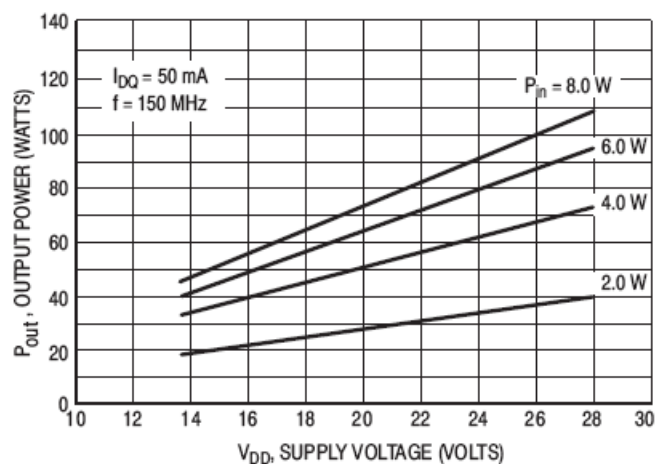
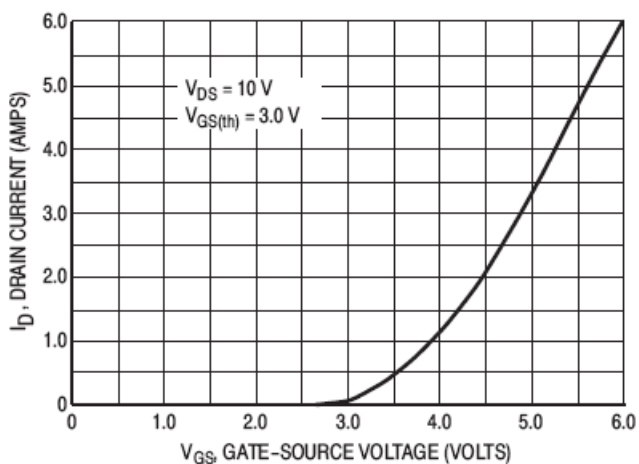
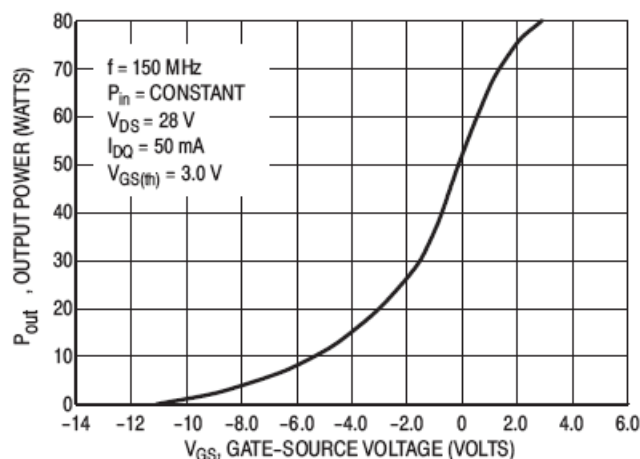
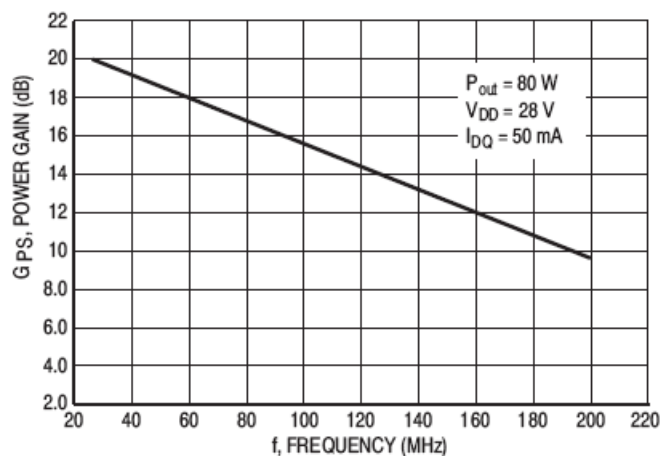
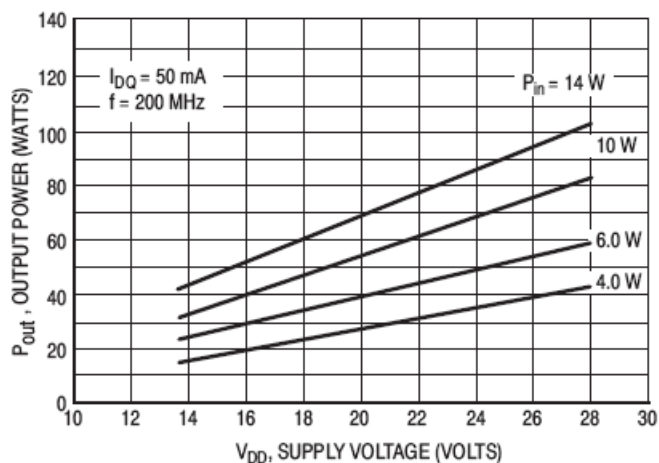


Figure 5. Output Power versus Supply Voltage



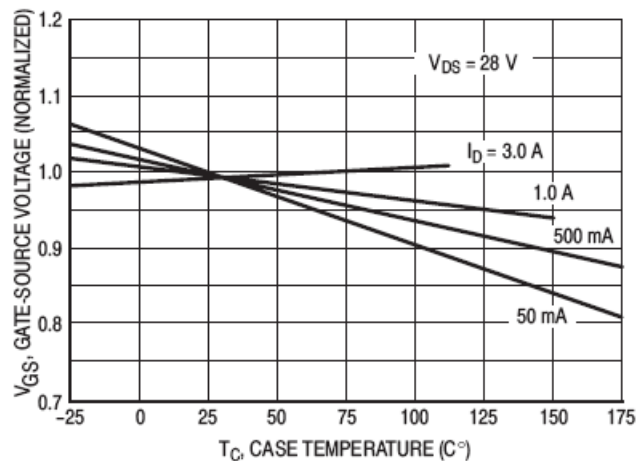


Figure 10. Gate-Source Voltage versus Case Temperature

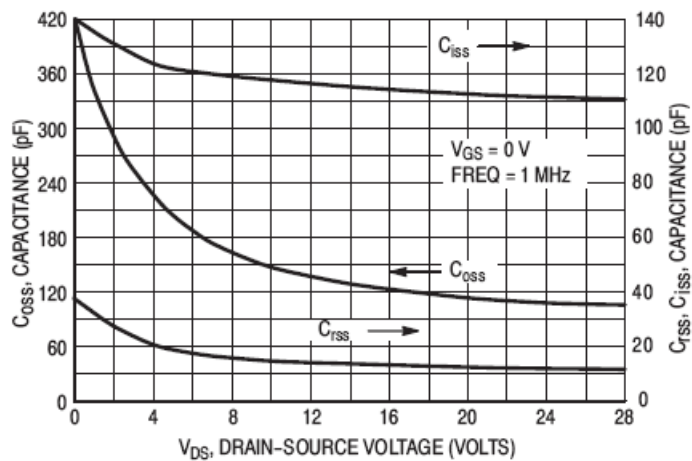


Figure 11. Capacitance versus Drain Voltage

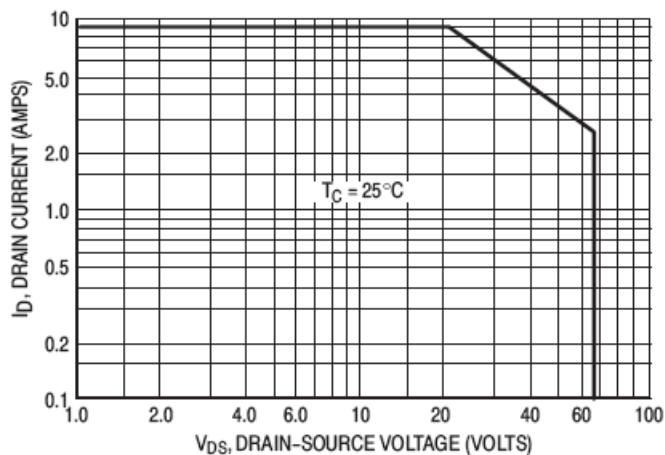


Figure 12. DC Safe Operating Area

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Table 1. Common Source S-Parameters ($V_{DS} = 12.5\text{ V}$, $I_D = 4\text{ A}$)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|------|-----------------|-----|-----------------|-----|-----------------|------|
| | S ₁₁ | ∠ φ | S ₂₁ | ∠ φ | S ₁₂ | ∠ φ | S ₂₂ | ∠ φ |
| 30 | 0.879 | -170 | 8.09 | 92 | 0.014 | 23 | 0.839 | -174 |
| 40 | 0.883 | -173 | 6.19 | 87 | 0.016 | 24 | 0.839 | -179 |
| 50 | 0.885 | -174 | 4.94 | 84 | 0.016 | 28 | 0.853 | -178 |
| 60 | 0.885 | -175 | 4.21 | 81 | 0.017 | 30 | 0.845 | 180 |
| 70 | 0.888 | -176 | 3.57 | 77 | 0.017 | 34 | 0.849 | 179 |
| 80 | 0.888 | -177 | 3.06 | 77 | 0.017 | 37 | 0.852 | -179 |
| 90 | 0.888 | -178 | 2.71 | 76 | 0.018 | 42 | 0.842 | -179 |
| 100 | 0.890 | -178 | 2.45 | 72 | 0.019 | 43 | 0.858 | 180 |
| 110 | 0.888 | -179 | 2.28 | 70 | 0.020 | 46 | 0.859 | 179 |
| 120 | 0.892 | -179 | 2.02 | 69 | 0.021 | 50 | 0.872 | -180 |
| 130 | 0.893 | -179 | 1.84 | 67 | 0.022 | 52 | 0.870 | -179 |
| 140 | 0.894 | -180 | 1.73 | 66 | 0.023 | 55 | 0.880 | -180 |
| 150 | 0.896 | -180 | 1.58 | 64 | 0.024 | 55 | 0.887 | 180 |
| 160 | 0.896 | 180 | 1.51 | 61 | 0.026 | 56 | 0.863 | 180 |
| 170 | 0.898 | 179 | 1.38 | 60 | 0.026 | 60 | 0.850 | 179 |
| 180 | 0.899 | 179 | 1.28 | 58 | 0.028 | 60 | 0.871 | 179 |
| 190 | 0.899 | 179 | 1.25 | 57 | 0.030 | 62 | 0.890 | 178 |
| 200 | 0.902 | 179 | 1.15 | 55 | 0.030 | 63 | 0.884 | 178 |
| 210 | 0.902 | 179 | 1.12 | 53 | 0.032 | 63 | 0.899 | 178 |
| 220 | 0.904 | 178 | 1.08 | 51 | 0.034 | 65 | 0.893 | 178 |
| 230 | 0.907 | 178 | 0.97 | 49 | 0.037 | 65 | 0.941 | 176 |
| 240 | 0.907 | 178 | 0.95 | 48 | 0.037 | 65 | 0.884 | 176 |
| 250 | 0.909 | 178 | 0.90 | 49 | 0.039 | 67 | 0.896 | 177 |
| 260 | 0.911 | 177 | 0.85 | 48 | 0.039 | 68 | 0.888 | 176 |
| 270 | 0.909 | 177 | 0.83 | 46 | 0.042 | 68 | 0.895 | 176 |
| 280 | 0.913 | 177 | 0.78 | 45 | 0.044 | 69 | 0.893 | 175 |
| 290 | 0.914 | 177 | 0.74 | 42 | 0.044 | 69 | 0.882 | 174 |
| 300 | 0.915 | 176 | 0.74 | 42 | 0.047 | 72 | 0.877 | 175 |
| 310 | 0.917 | 176 | 0.70 | 41 | 0.048 | 73 | 0.909 | 176 |
| 320 | 0.916 | 176 | 0.69 | 39 | 0.052 | 71 | 0.912 | 175 |
| 330 | 0.917 | 176 | 0.65 | 37 | 0.055 | 71 | 0.885 | 173 |
| 340 | 0.919 | 176 | 0.65 | 38 | 0.055 | 70 | 0.898 | 173 |
| 350 | 0.919 | 175 | 0.62 | 36 | 0.057 | 72 | 0.887 | 174 |
| 360 | 0.920 | 175 | 0.60 | 37 | 0.059 | 72 | 0.918 | 172 |
| 370 | 0.921 | 175 | 0.57 | 35 | 0.061 | 71 | 0.929 | 172 |
| 380 | 0.923 | 175 | 0.56 | 34 | 0.063 | 71 | 0.900 | 172 |
| 390 | 0.925 | 175 | 0.54 | 36 | 0.065 | 71 | 0.907 | 171 |
| 400 | 0.926 | 174 | 0.51 | 34 | 0.067 | 75 | 0.902 | 173 |
| 410 | 0.927 | 174 | 0.51 | 33 | 0.070 | 73 | 0.942 | 170 |
| 420 | 0.929 | 174 | 0.49 | 31 | 0.071 | 71 | 0.926 | 169 |
| 430 | 0.929 | 173 | 0.46 | 32 | 0.072 | 72 | 0.901 | 170 |
| 440 | 0.930 | 173 | 0.45 | 32 | 0.076 | 73 | 0.904 | 170 |

Table 1. Common Source S-Parameters ($V_{DS} = 12.5$ V, $I_D = 4$ A) (continued)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | S ₁₁ | ∠ φ | S ₂₁ | ∠ φ | S ₁₂ | ∠ φ | S ₂₂ | ∠ φ |
| 450 | 0.932 | 173 | 0.45 | 29 | 0.079 | 75 | 0.924 | 170 |
| 460 | 0.932 | 172 | 0.44 | 30 | 0.082 | 71 | 0.938 | 167 |
| 470 | 0.933 | 172 | 0.42 | 30 | 0.081 | 73 | 0.908 | 168 |
| 480 | 0.931 | 172 | 0.42 | 29 | 0.086 | 72 | 0.933 | 168 |
| 490 | 0.931 | 171 | 0.41 | 28 | 0.089 | 72 | 0.926 | 167 |
| 500 | 0.931 | 171 | 0.41 | 27 | 0.092 | 71 | 0.936 | 167 |

Table 2. Common Source S-Parameters ($V_{DS} = 28\text{ V}$, $I_D = 4\text{ A}$)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|------|-----------------|-----|-----------------|-----|-----------------|------|
| | S ₁₁ | ∠ φ | S ₂₁ | ∠ φ | S ₁₂ | ∠ φ | S ₂₂ | ∠ φ |
| 30 | 0.840 | -163 | 11.48 | 92 | 0.016 | 20 | 0.718 | -169 |
| 40 | 0.849 | -167 | 8.80 | 86 | 0.017 | 22 | 0.713 | -174 |
| 50 | 0.853 | -170 | 6.99 | 82 | 0.017 | 24 | 0.748 | -174 |
| 60 | 0.854 | -171 | 5.92 | 79 | 0.017 | 23 | 0.746 | -175 |
| 70 | 0.859 | -172 | 5.00 | 74 | 0.018 | 25 | 0.746 | -175 |
| 80 | 0.859 | -174 | 4.29 | 73 | 0.018 | 30 | 0.741 | -174 |
| 90 | 0.861 | -174 | 3.77 | 71 | 0.019 | 38 | 0.735 | -174 |
| 100 | 0.866 | -175 | 3.39 | 67 | 0.018 | 40 | 0.768 | -176 |
| 110 | 0.865 | -175 | 3.12 | 64 | 0.018 | 41 | 0.782 | -177 |
| 120 | 0.871 | -176 | 2.75 | 63 | 0.019 | 42 | 0.794 | -175 |
| 130 | 0.875 | -176 | 2.49 | 60 | 0.021 | 45 | 0.783 | -172 |
| 140 | 0.877 | -177 | 2.31 | 59 | 0.023 | 51 | 0.776 | -175 |
| 150 | 0.883 | -177 | 2.10 | 56 | 0.023 | 55 | 0.806 | -176 |
| 160 | 0.884 | -177 | 1.99 | 53 | 0.023 | 58 | 0.807 | -176 |
| 170 | 0.886 | -178 | 1.82 | 51 | 0.023 | 61 | 0.806 | -176 |
| 180 | 0.890 | -178 | 1.66 | 49 | 0.025 | 59 | 0.820 | -175 |
| 190 | 0.891 | -179 | 1.62 | 48 | 0.027 | 60 | 0.815 | -176 |
| 200 | 0.896 | -179 | 1.47 | 46 | 0.030 | 63 | 0.819 | -177 |
| 210 | 0.898 | -179 | 1.41 | 43 | 0.031 | 67 | 0.842 | -178 |
| 220 | 0.901 | -179 | 1.36 | 41 | 0.032 | 70 | 0.855 | -178 |
| 230 | 0.905 | -180 | 1.22 | 38 | 0.033 | 70 | 0.906 | -178 |
| 240 | 0.906 | -180 | 1.19 | 38 | 0.034 | 67 | 0.845 | -178 |
| 250 | 0.909 | 180 | 1.11 | 39 | 0.037 | 68 | 0.831 | -178 |
| 260 | 0.913 | 180 | 1.03 | 37 | 0.038 | 70 | 0.837 | -180 |
| 270 | 0.912 | 179 | 0.10 | 35 | 0.041 | 72 | 0.859 | 179 |
| 280 | 0.916 | 179 | 0.93 | 34 | 0.042 | 74 | 0.876 | 178 |
| 290 | 0.918 | 179 | 0.88 | 31 | 0.041 | 73 | 0.865 | 179 |
| 300 | 0.919 | 178 | 0.87 | 31 | 0.044 | 74 | 0.837 | -180 |
| 310 | 0.922 | 178 | 0.83 | 31 | 0.046 | 74 | 0.863 | 180 |
| 320 | 0.922 | 178 | 0.80 | 27 | 0.051 | 73 | 0.879 | 177 |
| 330 | 0.924 | 177 | 0.75 | 26 | 0.054 | 74 | 0.878 | 176 |
| 340 | 0.926 | 177 | 0.74 | 27 | 0.053 | 74 | 0.897 | 177 |
| 350 | 0.926 | 177 | 0.71 | 24 | 0.054 | 77 | 0.879 | 179 |

Table 2. Common Source S-Parameters ($V_{DS} = 28\text{ V}$, $I_D = 4\text{ A}$) (continued)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | S ₁₁ | ∠ φ | S ₂₁ | ∠ φ | S ₁₂ | ∠ φ | S ₂₂ | ∠ φ |
| 360 | 0.927 | 177 | 0.68 | 26 | 0.056 | 75 | 0.888 | 177 |
| 370 | 0.929 | 177 | 0.64 | 24 | 0.058 | 73 | 0.893 | 175 |
| 380 | 0.931 | 176 | 0.62 | 23 | 0.062 | 72 | 0.885 | 174 |
| 390 | 0.934 | 176 | 0.60 | 25 | 0.064 | 74 | 0.903 | 174 |
| 400 | 0.934 | 176 | 0.57 | 22 | 0.065 | 78 | 0.898 | 177 |
| 410 | 0.936 | 175 | 0.56 | 21 | 0.068 | 77 | 0.931 | 175 |
| 420 | 0.938 | 175 | 0.53 | 20 | 0.070 | 74 | 0.906 | 173 |
| 430 | 0.938 | 174 | 0.51 | 21 | 0.072 | 73 | 0.885 | 173 |
| 440 | 0.939 | 174 | 0.49 | 21 | 0.075 | 75 | 0.895 | 172 |
| 450 | 0.941 | 174 | 0.48 | 19 | 0.080 | 78 | 0.923 | 172 |
| 460 | 0.941 | 173 | 0.47 | 19 | 0.082 | 75 | 0.940 | 171 |
| 470 | 0.942 | 173 | 0.45 | 18 | 0.080 | 75 | 0.904 | 172 |
| 480 | 0.940 | 173 | 0.44 | 18 | 0.083 | 74 | 0.910 | 171 |
| 490 | 0.940 | 172 | 0.43 | 18 | 0.088 | 72 | 0.906 | 169 |
| 500 | 0.940 | 172 | 0.42 | 17 | 0.092 | 72 | 0.927 | 168 |

The RF MOSFET Line 80W, 175MHz, 28V

Rev. V1

DESIGN CONSIDERATIONS

The MRF173 is a RF MOSFET power N-channel enhancement mode field-effect transistor (FET) designed for VHF power amplifier applications. M/A-COM RF MOSFETs feature a vertical structure with a planar design, thus avoiding the processing difficulties associated with V-groove power FETs.

M/A-COM Application Note AN211A, FETs in Theory and Practice, is suggested reading for those not familiar with the construction and characteristics of FETs.

The major advantages of RF power FETs include high gain, low noise, simple bias systems, relative immunity from thermal runaway, and the ability to withstand severely mismatched loads without suffering damage. Power output can be varied over a wide range with a low power dc control signal, thus facilitating manual gain control, ALC and modulation.

DC BIAS

The MRF173 is an enhancement mode FET and, therefore, does not conduct when drain voltage is applied. Drain current flows when a positive voltage is applied to the gate. See Figure 9 for a typical plot of drain current versus gate voltage. RF power FETs require forward bias for optimum performance. The value of quiescent drain current (IDQ) is not critical for many applications. The MRF173 was characterized at IDQ = 50 mA, which is the suggested minimum

value of IDQ. For special applications such as linear amplification, IDQ may have to be selected to optimize the critical parameters.

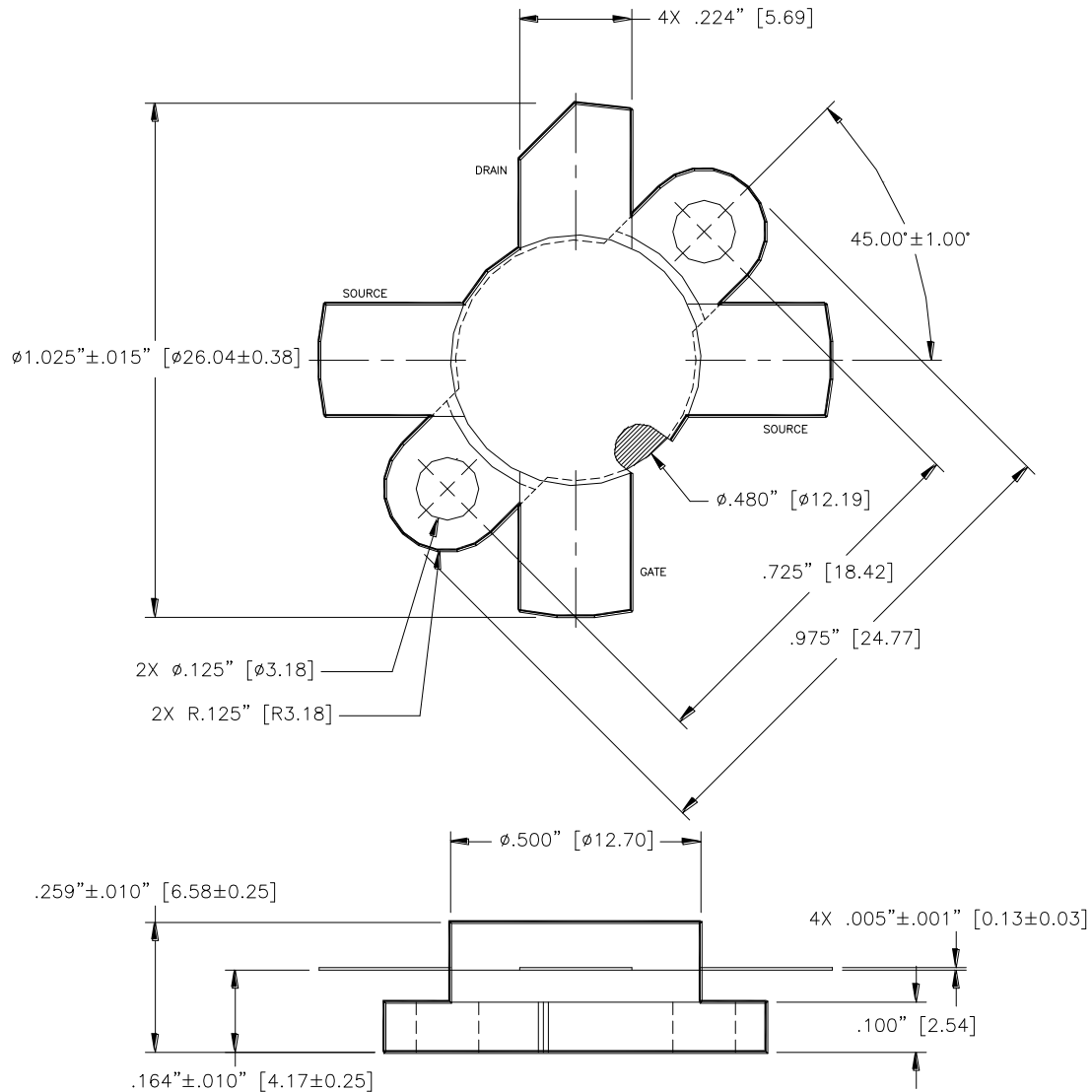
The gate is a dc open circuit and draws no current. Therefore, the gate bias circuit may generally be just a simple resistive divider network. Some special applications may require a more elaborate bias system.

GAIN CONTROL

Power output of the MRF173 may be controlled from its rated value down to zero (negative gain) by varying the dc gate voltage. This feature facilitates the design of manual gain control, AGC/ALC and modulation systems. (see Figure 8.)

AMPLIFIER DESIGN

Impedance matching networks similar to those used with bipolar VHF transistors are suitable for MRF173. See M/A-COM Application Note AN721, Impedance Matching Networks Applied to RF Power Transistors. The higher input impedance of RF MOSFETs helps ease the task of broadband network design. Both small-signal scattering parameters and large-signal impedances are provided. While the s-parameters will not produce an exact design solution for high power operation, they do yield a good first approximation. This is an additional advantage of RF MOS power FETs.



Unless otherwise noted, tolerances are inches $\pm .005''$ [millimeters $\pm 0.13\text{mm}$]

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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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