

The RF MOSFET Line: Broadband Power FET 4W, to 500MHz, 28V

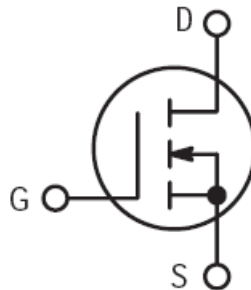
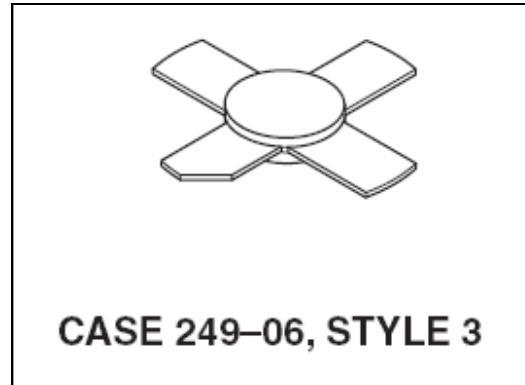
Rev. V1

Designed primarily for wideband large-signal output and driver from 30–500 MHz.

N-Channel enhancement mode MOSFET

- Guaranteed 28 V, 500 MHz performance
Output power = 4.0 W
Gain = 16 dB (min.)
Efficiency = 55% (typ.)
- Excellent thermal stability, ideally suited for Class A operation
- Facilitates manual gain control, ALC and modulation techniques
- 100% Tested for load mismatch at all phase angles with 30:1 VSWR
- Low Crss – 0.8 pF Typical at VDS = 28 V

Product Image



MAXIMUM RATINGS (T_J = 25°C unless otherwise noted)

| Rating | Symbol | Value | Unit |
|---|------------------|--------------|---------------|
| Drain–Gate Voltage | V _{DSS} | 65 | Vdc |
| Drain–Gate Voltage (R _{GS} = 1.0 MΩ) | V _{DGR} | 65 | Vdc |
| Gate–Source Voltage | V _{GS} | ± 20 | Vdc |
| Drain Current–Continuous | I _D | 1.0 | ADC |
| Total Device Dissipation @ T _C = 25°C Derate Above 25°C | P _D | 24 0.14 | Watts W/°C |
| Storage Temperature Range | T _{stg} | – 65 to +150 | °C |
| Operating Junction Temperature | T _J | 200 | °C |

THERMAL CHARACTERISTICS

| | | | |
|---------------------------------------|------------------|-----|------|
| Thermal Resistance — Junction to Case | R _{θJC} | 7.2 | °C/W |
|---------------------------------------|------------------|-----|------|

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

The RF MOSFET Line: Broadband Power FET 4W, to 500MHz, 28V

Rev. V1

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

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

OFF CHARACTERISTICS

| | | | | | |
|--|---------------|----|---|-----|---------------|
| Drain-Source Breakdown Voltage ($V_{DS} = 0 \text{ Vdc}$, $V_{GS} = 0 \text{ Vdc}$, $I_D = 1.0 \text{ mA}$) | $V_{(BR)DSS}$ | 65 | — | — | Vdc |
| Zero Gate Voltage Drain Current ($V_{DS} = 28 \text{ Vdc}$, $V_{GS} = 0 \text{ V}$) | I_{DSS} | — | — | 0.5 | mA |
| Gate-Source Leakage Current ($V_{GS} = 20 \text{ Vdc}$, $V_{DS} = 0 \text{ Vdc}$) | I_{GSS} | — | — | 1.0 | μA |

ON CHARACTERISTICS

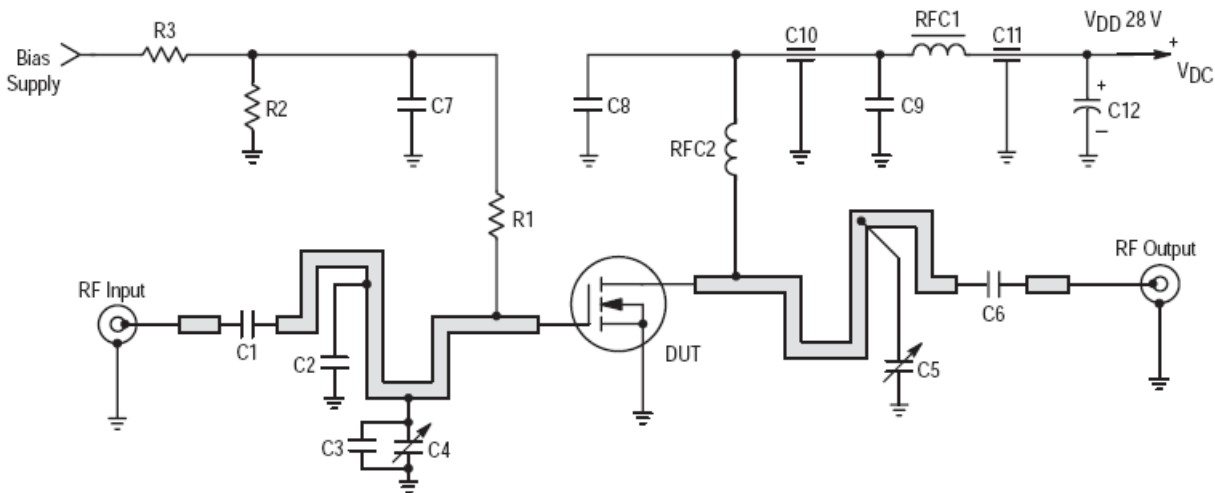
| | | | | | |
|--|--------------|-----|-----|-----|-----|
| Gate Threshold Voltage ($V_{DS} = 10 \text{ Vdc}$, $I_D = 10 \text{ mA}$) | $V_{GS(th)}$ | 1.5 | 3.0 | 4.5 | Vdc |
| Drain Source On-Voltage ($V_{DS(on)}$, $V_{GS} = 10 \text{ Vdc}$, $I_D = 500 \text{ mA}$) | $V_{DS(on)}$ | — | 3.8 | — | Vdc |
| Forward Transconductance ($V_{DS} = 10 \text{ Vdc}$, $I_D = 250 \text{ mA}$) | g_{fs} | 150 | 220 | — | mS |

DYNAMIC CHARACTERISTICS

| | | | | | |
|--|-----------|---|-----|---|----|
| Input Capacitance ($V_{DS} = 28 \text{ Vdc}$, $V_{GS} = 0 \text{ V}$, $f = 1.0 \text{ MHz}$) | C_{iss} | — | 6.0 | — | pF |
| Output Capacitance ($V_{DS} = 28 \text{ V}$, $V_{GS} = 0 \text{ Vdc}$, $f = 1.0 \text{ MHz}$) | C_{oss} | — | 6.5 | — | pF |
| Reverse Transfer Capacitance ($V_{DS} = 28 \text{ Vdc}$, $V_{GS} = 0 \text{ Vdc}$, $f = 1.0 \text{ MHz}$) | C_{rss} | — | 0.8 | — | pF |

FUNCTIONAL CHARACTERISTICS

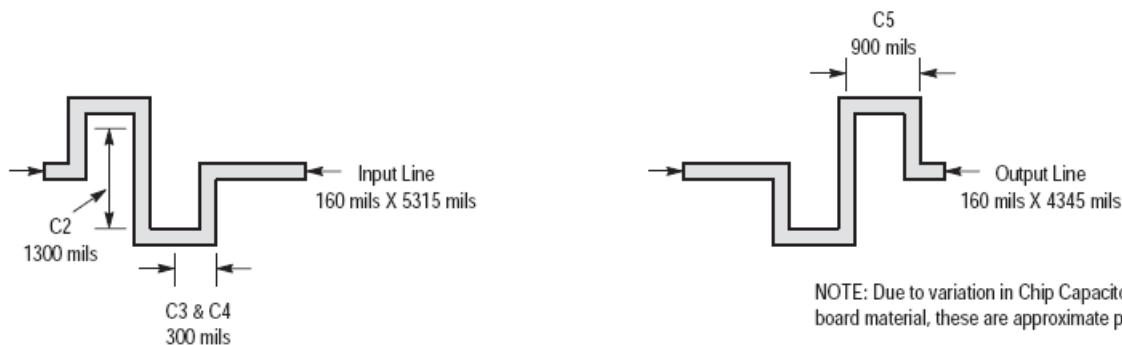
| | | | | | |
|--|-----------|--------------------------------|-------------|---|------|
| Common Source Power Gain ($V_{DD} = 28 \text{ Vdc}$, $P_{out} = 4.0 \text{ W}$, $f = 500 \text{ MHz}$, $I_{DQ} = 50 \text{ mA}$) | G_{ps} | 16 | 18 | — | dB |
| Drain Efficiency ($V_{DD} = 28 \text{ Vdc}$, $P_{out} = 4.0 \text{ W}$, $f = 500 \text{ MHz}$, $I_{DQ} = 50 \text{ mA}$) | η | 50 | 55 | — | % |
| Electrical Ruggedness ($V_{DD} = 28 \text{ Vdc}$, $P_{out} = 4.0 \text{ W}$, $f = 500 \text{ MHz}$, $I_{DQ} = 50 \text{ mA}$) Load VSWR = 30:1 at All Phase Angles at Frequency of Test | ψ | No Degradation in Output Power | | | |
| Series Equivalent Input Impedance ($V_{DD} = 28 \text{ Vdc}$, $P_{out} = 4.0 \text{ W}$, $f = 500 \text{ MHz}$, $I_{DQ} = 50 \text{ mA}$) | Z_{in} | — | $6.8 - j21$ | — | Ohms |
| Series Equivalent Output Impedance ($V_{DD} = 28 \text{ Vdc}$, $P_{out} = 4.0 \text{ W}$, $f = 500 \text{ MHz}$, $I_{DQ} = 50 \text{ mA}$) | Z_{out} | — | $21 - j28$ | — | Ohms |



- C1, C6 240 pF, 100 mil Chip Capacitors
- C2 15 pF, 100 mil ATC Chip Capacitor
- C4, C5 1 – 10 pF, Johanson Trimmer Capacitors
- C3 24 pF, 100 mil ATC Chip Capacitor
- C7, C9 0.1 μ F, 100 mil Chip Capacitors
- C8 220 pF, 100 mil ATC Chip Capacitor
- C10, C11 680 pF, Feed Through Capacitors
- C12 50 μ F, 50 V Electrolytic Capacitor

- R1 200 Ω , 1/2 Watt
- R2 10 k Ω , 1/2 Watt
- R3 1 k Ω , 1/2 Watt
- RFC1 Ferroxcube VK200-19/4B
- RFC2 8 Turns, #20 AWG, Enameled, ID 110 mils

Board Material — 0.062", Teflon[®] Fiberglass, 1 oz.,
Copper clad both sides, $\epsilon_r = 2.55$



NOTE: Due to variation in Chip Capacitor values and board material, these are approximate positions.

Figure 1. MRF160 500 MHz Test Circuit

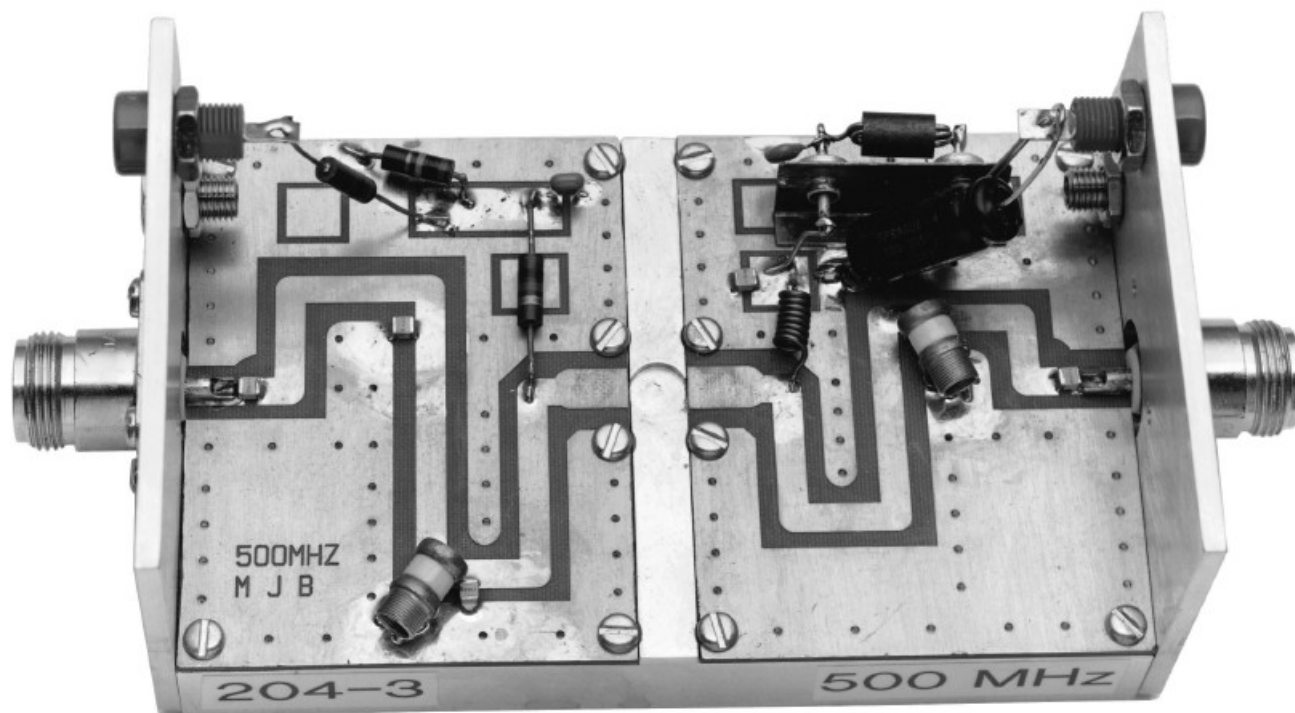


Figure 2. MRF160 Broadband Test Fixture

TYPICAL CHARACTERISTICS

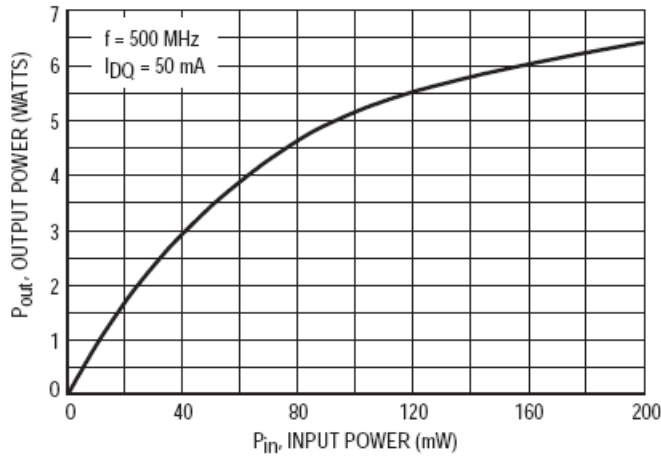


Figure 3. Output Power versus Input Power

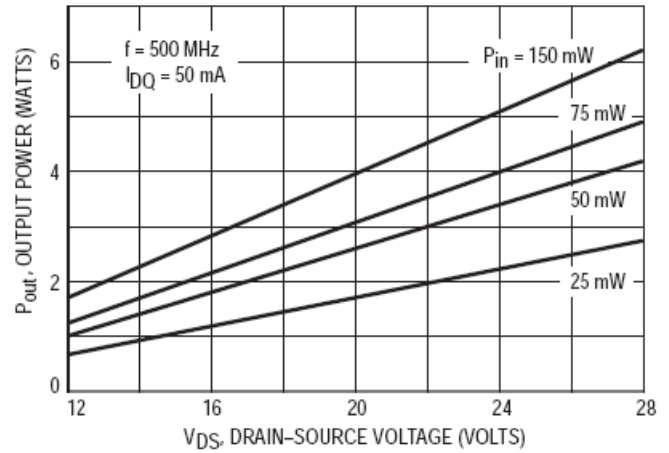


Figure 4. Output Power versus Voltage

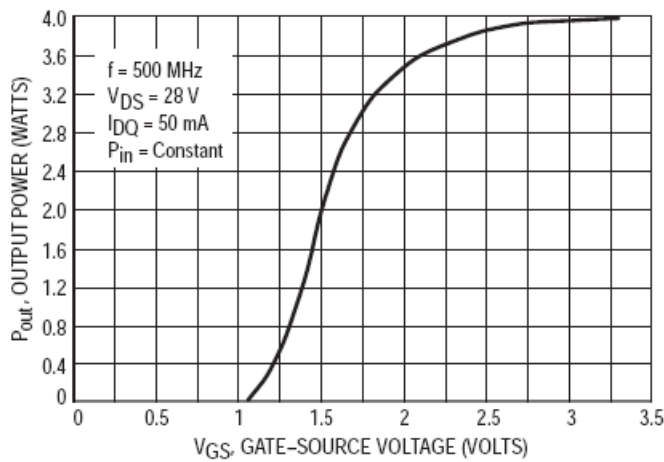


Figure 5. Output Power versus Gate Voltage

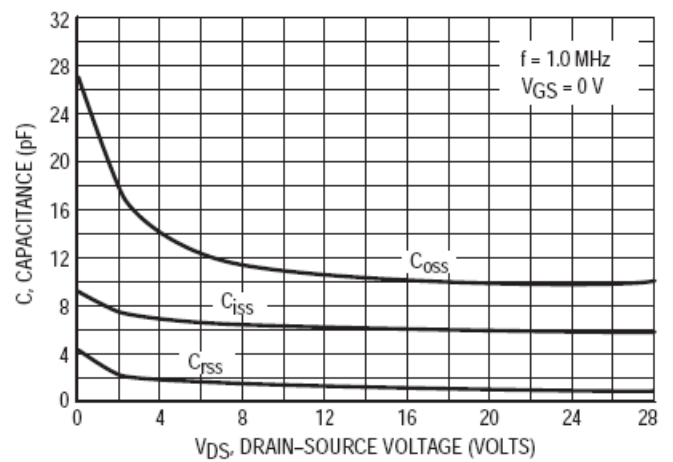


Figure 6. Capacitance versus Drain-Source Voltage

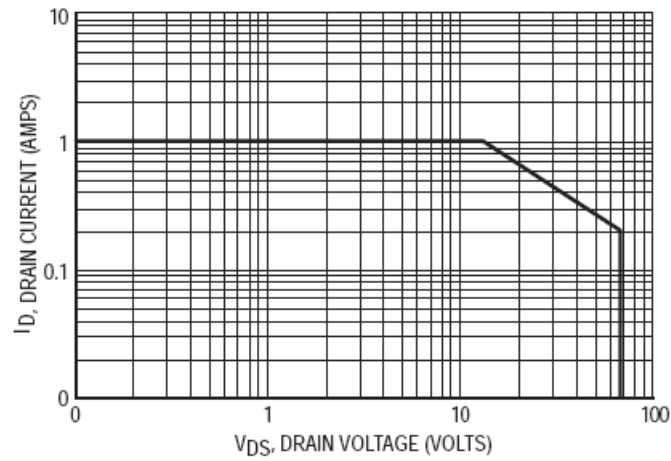


Figure 7. DC Safe Operating Area

The RF MOSFET Line: Broadband Power FET 4W, to 500MHz, 28V

Rev. V1

Table 1. Common Source S-Parameters ($V_{DS} = 12.5\text{ V}$, $I_D = 120\text{ mA}$)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|------|-----------------|-----|-----------------|----|-----------------|------|
| | S ₁₁ | ∠ | S ₂₁ | ∠ | S ₁₂ | ∠ | S ₂₂ | ∠ |
| 30 | 0.991 | -19 | 15.80 | 166 | 0.019 | 77 | 0.938 | -19 |
| 40 | 0.970 | -25 | 15.50 | 161 | 0.025 | 72 | 0.933 | -25 |
| 50 | 0.959 | -31 | 15.20 | 156 | 0.030 | 67 | 0.918 | -31 |
| 60 | 0.943 | -37 | 14.80 | 151 | 0.035 | 63 | 0.900 | -37 |
| 70 | 0.925 | -42 | 14.30 | 147 | 0.040 | 59 | 0.880 | -42 |
| 80 | 0.912 | -48 | 13.90 | 143 | 0.044 | 56 | 0.863 | -47 |
| 85 | 0.903 | -51 | 13.70 | 141 | 0.046 | 54 | 0.857 | -49 |
| 90 | 0.896 | -53 | 13.50 | 139 | 0.048 | 52 | 0.851 | -52 |
| 100 | 0.872 | -58 | 12.90 | 135 | 0.051 | 48 | 0.830 | -57 |
| 110 | 0.853 | -63 | 12.40 | 131 | 0.054 | 46 | 0.812 | -60 |
| 120 | 0.841 | -67 | 11.90 | 128 | 0.056 | 43 | 0.796 | -63 |
| 130 | 0.831 | -71 | 11.50 | 126 | 0.059 | 40 | 0.788 | -67 |
| 140 | 0.814 | -75 | 11.10 | 122 | 0.061 | 37 | 0.777 | -70 |
| 150 | 0.797 | -79 | 10.70 | 119 | 0.063 | 34 | 0.760 | -74 |
| 160 | 0.782 | -82 | 10.20 | 117 | 0.064 | 32 | 0.739 | -78 |
| 170 | 0.776 | -85 | 9.81 | 115 | 0.066 | 32 | 0.740 | -79 |
| 180 | 0.769 | -89 | 9.55 | 112 | 0.068 | 28 | 0.737 | -83 |
| 190 | 0.754 | -92 | 9.24 | 109 | 0.069 | 25 | 0.725 | -87 |
| 200 | 0.737 | -94 | 8.83 | 107 | 0.068 | 23 | 0.707 | -90 |
| 210 | 0.731 | -96 | 8.47 | 105 | 0.068 | 22 | 0.692 | -92 |
| 220 | 0.730 | -99 | 8.20 | 103 | 0.069 | 21 | 0.692 | -94 |
| 230 | 0.724 | -101 | 7.94 | 101 | 0.071 | 20 | 0.697 | -95 |
| 240 | 0.713 | -104 | 7.69 | 99 | 0.072 | 16 | 0.696 | -99 |
| 250 | 0.705 | -106 | 7.44 | 97 | 0.070 | 15 | 0.676 | -100 |
| 260 | 0.699 | -108 | 7.18 | 96 | 0.070 | 15 | 0.673 | -102 |
| 270 | 0.697 | -109 | 6.91 | 94 | 0.070 | 14 | 0.661 | -103 |
| 280 | 0.697 | -111 | 6.70 | 93 | 0.071 | 13 | 0.654 | -104 |
| 290 | 0.693 | -113 | 6.54 | 92 | 0.071 | 11 | 0.658 | -106 |
| 300 | 0.686 | -115 | 6.36 | 90 | 0.072 | 9 | 0.664 | -108 |
| 310 | 0.679 | -116 | 6.12 | 88 | 0.069 | 7 | 0.639 | -111 |
| 320 | 0.679 | -117 | 5.96 | 87 | 0.070 | 9 | 0.642 | -110 |
| 330 | 0.679 | -119 | 5.80 | 86 | 0.070 | 8 | 0.648 | -112 |
| 340 | 0.679 | -121 | 5.63 | 84 | 0.071 | 7 | 0.648 | -114 |
| 350 | 0.674 | -122 | 5.47 | 83 | 0.070 | 5 | 0.645 | -114 |
| 360 | 0.669 | -123 | 5.33 | 82 | 0.070 | 4 | 0.650 | -116 |
| 370 | 0.667 | -124 | 5.18 | 80 | 0.068 | 3 | 0.644 | -118 |
| 380 | 0.672 | -125 | 5.02 | 80 | 0.066 | 3 | 0.614 | -119 |
| 390 | 0.675 | -127 | 4.96 | 78 | 0.071 | 4 | 0.655 | -116 |
| 400 | 0.672 | -129 | 4.83 | 77 | 0.070 | 2 | 0.655 | -119 |
| 410 | 0.668 | -130 | 4.70 | 75 | 0.069 | 0 | 0.654 | -121 |
| 420 | 0.666 | -131 | 4.56 | 74 | 0.067 | -1 | 0.644 | -122 |
| 430 | 0.667 | -131 | 4.48 | 74 | 0.066 | -1 | 0.646 | -122 |

**The RF MOSFET Line: Broadband Power FET
4W, to 500MHz, 28V**

Rev. V1

Table 1. Common Source S-Parameters ($V_{DS} = 12.5\text{ V}$, $I_D = 120\text{ mA}$) (continued)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|------|-----------------|----|-----------------|-----|-----------------|------|
| | S ₁₁ | ∠ | S ₂₁ | ∠ | S ₁₂ | ∠ | S ₂₂ | ∠ |
| 440 | 0.671 | -132 | 4.39 | 72 | 0.066 | -1 | 0.651 | -123 |
| 450 | 0.670 | -134 | 4.29 | 71 | 0.068 | -1 | 0.663 | -123 |
| 460 | 0.662 | -135 | 4.15 | 70 | 0.067 | -6 | 0.677 | -127 |
| 470 | 0.663 | -135 | 4.05 | 69 | 0.065 | -5 | 0.664 | -127 |
| 480 | 0.666 | -136 | 3.95 | 68 | 0.064 | -5 | 0.663 | -128 |
| 490 | 0.670 | -137 | 3.88 | 67 | 0.064 | -5 | 0.663 | -128 |
| 500 | 0.670 | -138 | 3.81 | 66 | 0.063 | -6 | 0.670 | -128 |
| 600 | 0.693 | -147 | 3.06 | 55 | 0.053 | -17 | 0.689 | -136 |
| 700 | 0.708 | -152 | 2.61 | 46 | 0.044 | -14 | 0.723 | -142 |
| 800 | 0.731 | -158 | 2.22 | 40 | 0.037 | -15 | 0.733 | -146 |
| 900 | 0.724 | -165 | 1.93 | 32 | 0.037 | -32 | 0.760 | -151 |
| 1000 | 0.748 | -169 | 1.73 | 28 | 0.027 | -6 | 0.778 | -153 |

The RF MOSFET Line: Broadband Power FET 4W, to 500MHz, 28V

Rev. V1

Table 2. Common Source S-Parameters ($V_{DS} = 28\text{ V}$, $I_D = 250\text{ mA}$)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|------|-----------------|-----|-----------------|----|-----------------|-----|
| | S ₁₁ | ∠ | S ₂₁ | ∠ | S ₁₂ | ∠ | S ₂₂ | ∠ |
| 30 | 0.995 | -18 | 15.00 | 167 | 0.014 | 78 | 0.919 | -15 |
| 40 | 0.978 | -24 | 14.70 | 162 | 0.018 | 73 | 0.913 | -19 |
| 50 | 0.971 | -30 | 14.50 | 158 | 0.022 | 69 | 0.900 | -23 |
| 60 | 0.961 | -36 | 14.20 | 153 | 0.026 | 65 | 0.885 | -28 |
| 70 | 0.947 | -41 | 13.80 | 149 | 0.029 | 62 | 0.867 | -32 |
| 80 | 0.938 | -46 | 13.40 | 145 | 0.033 | 58 | 0.851 | -35 |
| 85 | 0.932 | -49 | 13.30 | 143 | 0.034 | 56 | 0.845 | -37 |
| 90 | 0.927 | -51 | 13.10 | 141 | 0.036 | 55 | 0.839 | -39 |
| 100 | 0.908 | -56 | 12.70 | 138 | 0.038 | 51 | 0.825 | -43 |
| 110 | 0.893 | -61 | 12.20 | 134 | 0.040 | 49 | 0.802 | -46 |
| 120 | 0.884 | -65 | 11.80 | 131 | 0.043 | 46 | 0.788 | -48 |
| 130 | 0.875 | -69 | 11.40 | 128 | 0.045 | 44 | 0.781 | -51 |
| 140 | 0.862 | -74 | 11.10 | 125 | 0.047 | 40 | 0.772 | -54 |
| 150 | 0.848 | -78 | 10.70 | 122 | 0.048 | 37 | 0.754 | -57 |
| 160 | 0.836 | -81 | 10.30 | 119 | 0.049 | 35 | 0.733 | -60 |
| 170 | 0.830 | -84 | 9.86 | 117 | 0.050 | 35 | 0.718 | -60 |
| 180 | 0.824 | -88 | 9.64 | 115 | 0.053 | 31 | 0.729 | -64 |
| 190 | 0.813 | -91 | 9.38 | 112 | 0.053 | 29 | 0.719 | -67 |
| 200 | 0.798 | -94 | 9.00 | 109 | 0.053 | 26 | 0.701 | -70 |
| 210 | 0.792 | -96 | 8.63 | 107 | 0.053 | 25 | 0.682 | -72 |
| 220 | 0.790 | -98 | 8.36 | 105 | 0.054 | 24 | 0.677 | -73 |
| 230 | 0.785 | -101 | 8.10 | 104 | 0.055 | 22 | 0.677 | -75 |
| 240 | 0.777 | -104 | 7.92 | 101 | 0.057 | 19 | 0.694 | -78 |
| 250 | 0.769 | -106 | 7.65 | 99 | 0.055 | 18 | 0.663 | -80 |
| 260 | 0.764 | -108 | 7.40 | 97 | 0.055 | 18 | 0.662 | -81 |
| 270 | 0.761 | -109 | 7.13 | 96 | 0.055 | 17 | 0.649 | -82 |
| 280 | 0.760 | -111 | 6.91 | 95 | 0.055 | 16 | 0.640 | -82 |

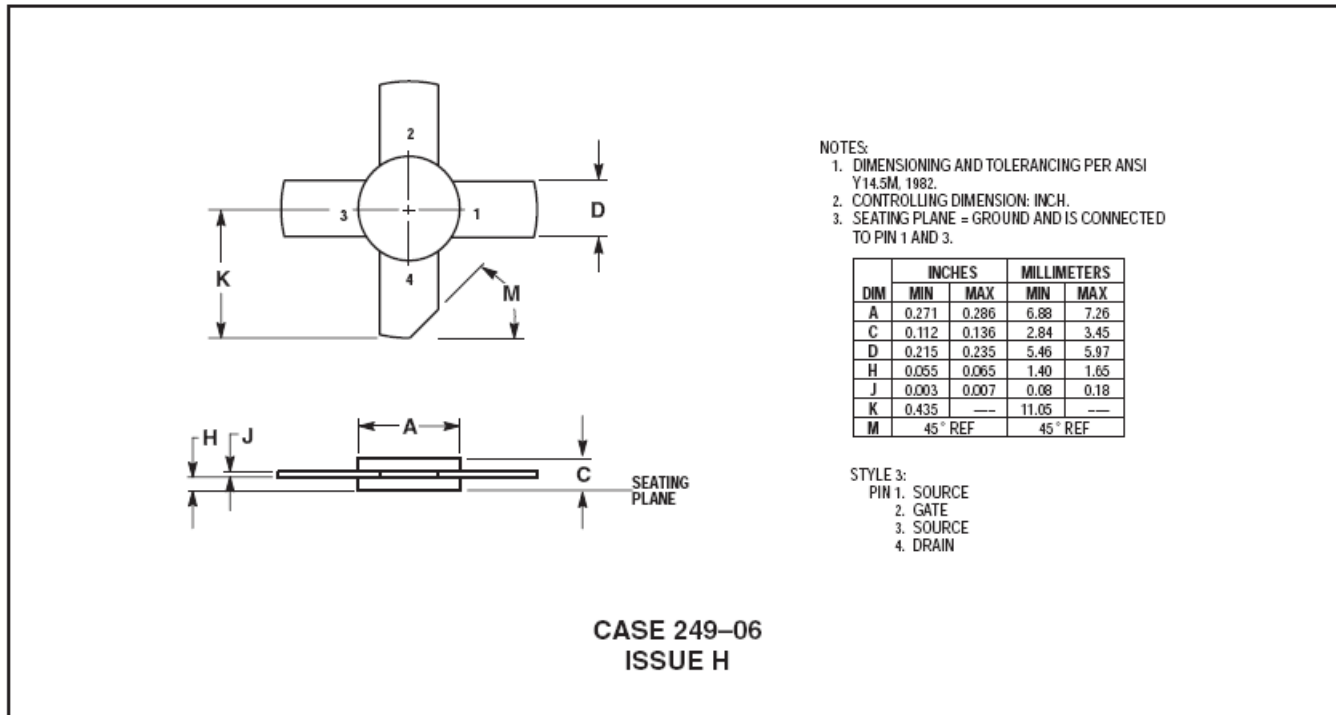
The RF MOSFET Line: Broadband Power FET 4W, to 500MHz, 28V

Rev. V1

Table 2. Common Source S-Parameters ($V_{DS} = 28\text{ V}$, $I_D = 250\text{ mA}$) (continued)

| f MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|----------|-----------------|------|-----------------|----|-----------------|-----|-----------------|------|
| | S ₁₁ | ∠ | S ₂₁ | ∠ | S ₁₂ | ∠ | S ₂₂ | ∠ |
| 290 | 0.757 | -113 | 6.75 | 93 | 0.055 | 14 | 0.641 | -84 |
| 300 | 0.751 | -115 | 6.59 | 91 | 0.056 | 12 | 0.645 | -86 |
| 310 | 0.743 | -117 | 6.37 | 89 | 0.055 | 9 | 0.635 | -90 |
| 320 | 0.744 | -118 | 6.17 | 88 | 0.054 | 11 | 0.619 | -89 |
| 330 | 0.744 | -120 | 6.01 | 87 | 0.055 | 11 | 0.628 | -90 |
| 340 | 0.743 | -121 | 5.85 | 85 | 0.055 | 10 | 0.629 | -92 |
| 350 | 0.738 | -123 | 5.70 | 84 | 0.055 | 8 | 0.629 | -92 |
| 360 | 0.733 | -124 | 5.55 | 82 | 0.054 | 6 | 0.631 | -94 |
| 370 | 0.730 | -126 | 5.40 | 81 | 0.054 | 4 | 0.623 | -96 |
| 380 | 0.732 | -127 | 5.21 | 80 | 0.052 | 4 | 0.593 | -98 |
| 390 | 0.737 | -129 | 5.17 | 79 | 0.055 | 7 | 0.627 | -93 |
| 400 | 0.734 | -130 | 5.04 | 77 | 0.055 | 4 | 0.639 | -97 |
| 410 | 0.731 | -131 | 4.92 | 76 | 0.054 | 3 | 0.641 | -99 |
| 420 | 0.728 | -132 | 4.78 | 75 | 0.052 | 1 | 0.630 | -100 |
| 430 | 0.729 | -133 | 4.67 | 74 | 0.051 | 0 | 0.628 | -101 |
| 440 | 0.731 | -134 | 4.57 | 72 | 0.051 | 1 | 0.626 | -102 |
| 450 | 0.731 | -136 | 4.47 | 71 | 0.053 | 1 | 0.630 | -102 |
| 460 | 0.723 | -137 | 4.37 | 69 | 0.054 | -4 | 0.673 | -106 |
| 470 | 0.724 | -137 | 4.24 | 68 | 0.050 | -3 | 0.647 | -107 |
| 480 | 0.727 | -138 | 4.13 | 68 | 0.049 | -3 | 0.642 | -108 |
| 490 | 0.730 | -139 | 4.05 | 67 | 0.048 | -3 | 0.641 | -107 |
| 500 | 0.730 | -140 | 3.99 | 66 | 0.048 | -4 | 0.647 | -108 |
| 600 | 0.736 | -150 | 3.54 | 56 | 0.037 | -14 | 0.657 | -118 |
| 700 | 0.745 | -156 | 2.99 | 46 | 0.029 | -9 | 0.699 | -126 |
| 800 | 0.765 | -161 | 2.54 | 39 | 0.025 | -5 | 0.713 | -131 |
| 900 | 0.759 | -168 | 2.20 | 31 | 0.022 | -34 | 0.742 | -136 |
| 1000 | 0.769 | -173 | 1.98 | 27 | 0.018 | 19 | 0.756 | -139 |

PACKAGE DIMENSIONS



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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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