# MRF166C

## The RF MOSFET Line
## 20W, 500MHz, 28V

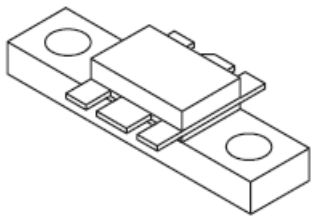
M/A-COM Products
Released - Rev. 07.07

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

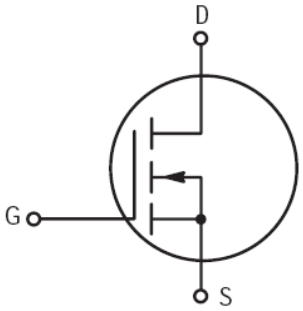
N–Channel enhancement mode MOSFET

- MRF166C — Guaranteed performance at 500 MHz, 28 Vdc
  Output power = 20 W
  Gain = 13.5 dB
  Efficiency = 50%
- Replacement for industry standards such as MRF136, V2820, BLF244, SD1902, and ST1001
- 100% tested for load mismatch at all phase angles with 30:1 VSWR
- Facilitates manual gain control, ALC and modulation techniques
- Excellent thermal stability, ideally suited for Class A operation
- Low Crss — 4.0 pF @ VDS = 28 V

**Product Image**



**CASE 319–07, STYLE 3**




**MAXIMUM RATINGS**

| 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 | Adc |
| Drain Current — Continuous | $I_D$ | 4.0 | Adc |
| Total Device Dissipation @ $T_C$ = 25°C<br>Derate Above 25°C | $P_D$ | 70<br>0.4 | Watts<br>W/°C |
| Storage Temperature Range | $T_{stg}$ | –65 to 150 | °C |
| Operating Junction Temperature | $T_J$ | 200 | °C |

**THERMAL CHARACTERISTICS**

| Characteristic | Symbol | Max | Unit |
|---|---|---|---|
| Thermal Resistance, Junction to Case | $R_{\theta JC}$ | 2.5 | °C/W |

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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## ELECTRICAL CHARACTERISTICS ($T_C$ = 25°C unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|---|---|---|---|---|---|
| **OFF CHARACTERISTICS** | | | | | |
| Drain–Source Breakdown Voltage ($V_{GS}$ = 0 V, $I_D$ = 5.0 mA) | $V_{(BR)DSS}$ | 65 | — | — | V |
| Zero Gate Voltage Drain Current ($V_{DS}$ = 28 V, $V_{GS}$ = 0 V) | $I_{DSS}$ | — | — | 0.5 | mA |
| Gate–Source Leakage Current ($V_{GS}$ = 20 V, $V_{DS}$ = 0 V) | $I_{GSS}$ | — | — | 1.0 | µA |
| **ON CHARACTERISTICS** | | | | | |
| Gate Threshold Voltage ($V_{DS}$ = 10 V, $I_D$ = 25 mA) | $V_{GS(th)}$ | 1.5 | 3.0 | 4.5 | V |
| Forward Transconductance ($V_{DS}$ = 10 V, $I_D$ = 1.5 A) | $g_{fs}$ | 0.8 | 1.1 | — | mhos |
| **DYNAMIC CHARACTERISTICS** | | | | | |
| Input Capacitance ($V_{DS}$ = 28 V, $V_{GS}$ = 0 V, f = 1.0 MHz) | $C_{iss}$ | — | 28 | — | pF |
| Output Capacitance ($V_{DS}$ = 28 V, $V_{GS}$ = 0 V, f = 1.0 MHz) | $C_{oss}$ | — | 30 | — | pF |
| Reverse Transfer Capacitance ($V_{DS}$ = 28 V, $V_{GS}$ = 0 V, f = 1.0 MHz) | $C_{rss}$ | — | 4.0 | — | pF |
| **FUNCTIONAL CHARACTERISTICS** | | | | | |
| Common Source Power Gain ($V_{DD}$ = 28 V, $P_{out}$ = 20 W, f = 500 MHz, $I_{DQ}$ = 25 mA) | $G_{ps}$ | 13.5 | 16 | — | dB |
| Drain Efficiency ($V_{DD}$ = 28 V, $P_{out}$ = 20 W, f = 500 MHz, $I_{DQ}$ = 25 mA) | $\eta$ | 50 | 55 | — | % |
| Electrical Ruggedness ($V_{DD}$ = 28 V, $P_{out}$ = 20 W, f = 500 MHz, $I_{DQ}$ = 25 mA, Load VSWR 30:1 at All Phase Angles) | $\psi$ | No Degradation in Output Power | | | |





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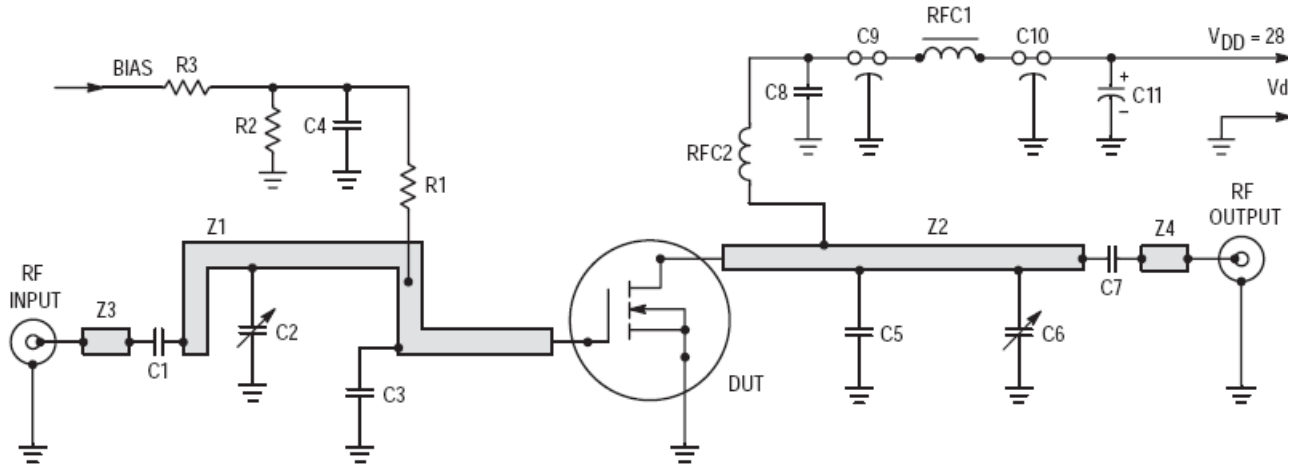
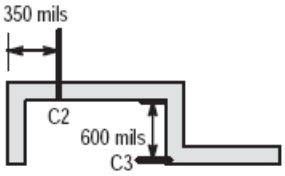
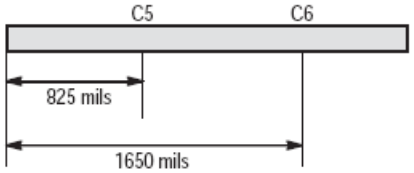



| | |
|---|---|
| C1, C7 | 200 pF, Chip Capacitor |
| C2, C6 | 2–10 pF, Trimmer Capacitor, Johansen |
| C3 | 27 pF, ATC 100 mil Chip Capacitor |
| C4, C8 | 0.1 µF, Chip Capacitor |
| C5 | 15 pF, ATC 100 mil Chip Capacitor |
| C9, C10 | 680 pF, Feedthru Capacitor |
| C11 | 50 µF, 50 V, Electrolytic Capacitor |
| R1 | 120 Ω, 1/2 W Resistor |
| R2 | 10 kΩ, 1/2 W Resistor |
| R3 | 1 kΩ, 1/2 W Resistor |
| RFC1 | Ferroxcube VK200 19/4B |
| RFC2 | 10 Turns AWG #18, 0.125″ I.D., Enameled |
| Board Material | 0.062″ Teflon® Fiberglass<br>1 oz. Copper Clad Both Sides<br>$\varepsilon_r$ = 2.56 |

Z1 0.120″ x 3.3″, Microstrip Line




Z2 0.120″ x 2.1″, Microstrip Line




Z3, Z4 0.120″ x 0.25″, Microstrip Line

**Figure 1. MRF166C 500 MHz Test Circuit**





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## TYPICAL CHARACTERISTICS

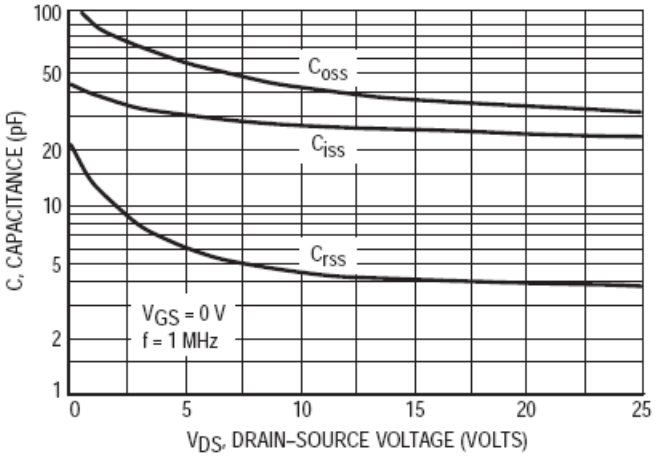


**Figure 2. Capacitance versus Drain–Source Voltage**

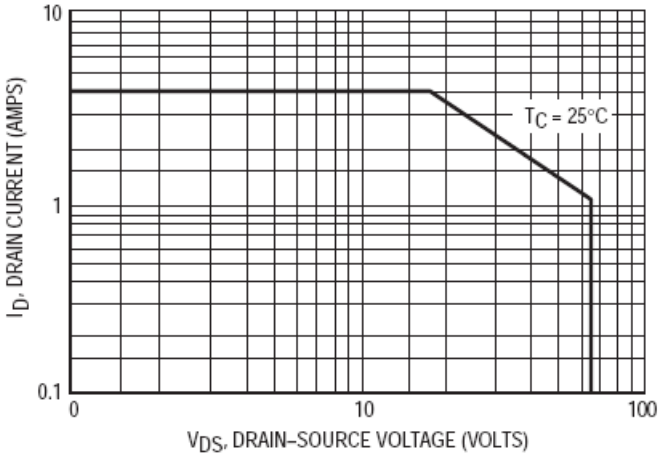


**Figure 3. DC Safe Operating Area**

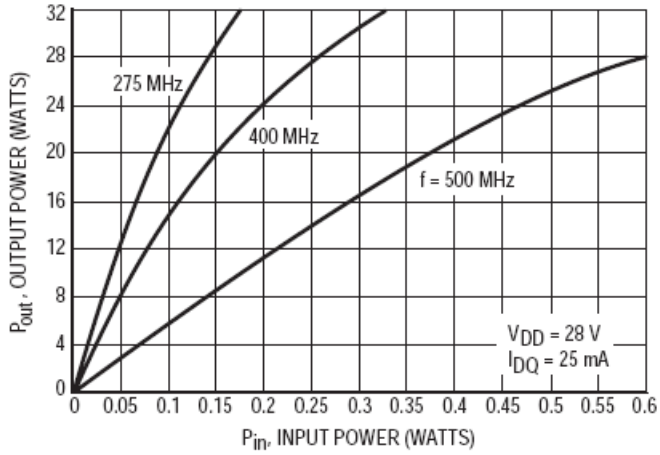


**Figure 4. Output Power versus Input Power**

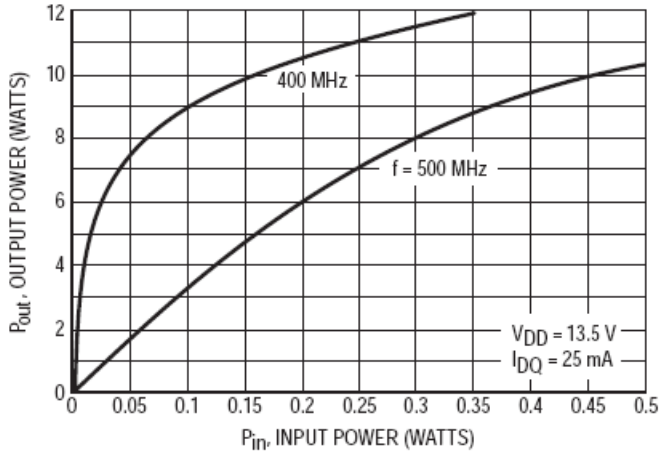


**Figure 5. Output Power versus Input Power**





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## TYPICAL CHARACTERISTICS

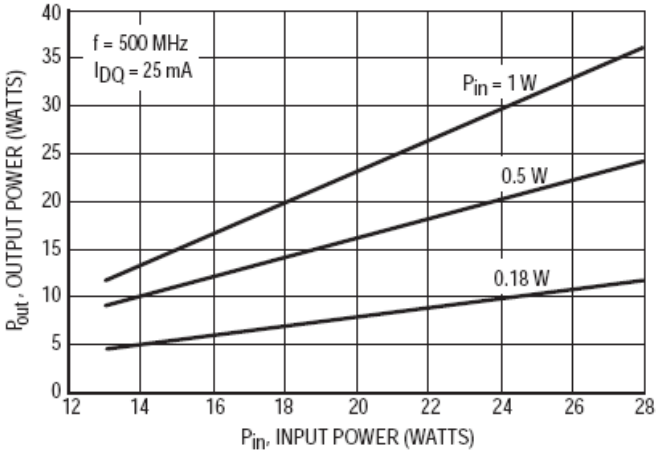


**Figure 6. Output Power versus Supply Voltage**

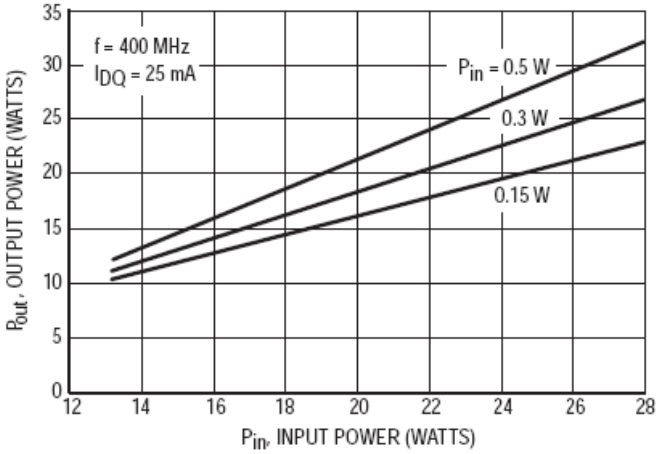


**Figure 7. Output Power versus Supply Voltage**





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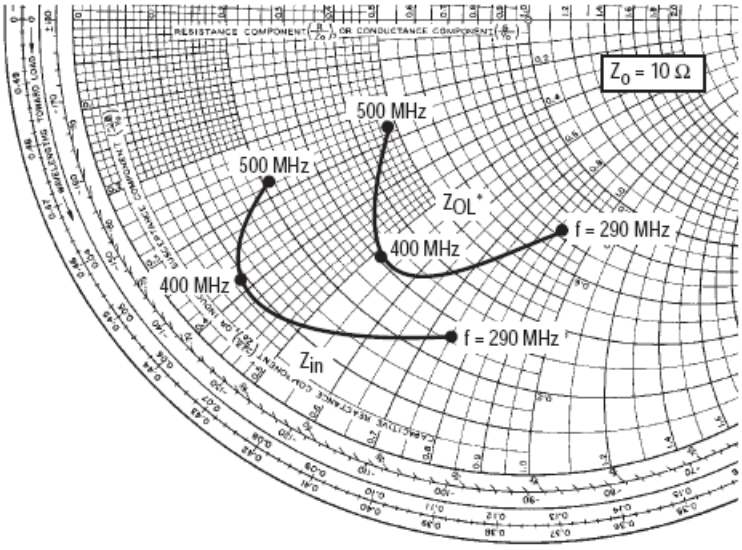


$V_{DD}$ = 28 V, $I_{DQ}$ = 25 mA, $P_{out}$ = 20 Watts

| f MHz | $Z_{in}$ Ohms | $Z_{OL}$* Ohms |
|---|---|---|
| 500 | 2.09 – j2.77 | 4.87 – j2.63 |
| 400 | 0.93 – j3.80 | 3.09 – j5.24 |
| 290 | 2.63 – j7.58 | 7.35 – j8.67 |

$Z_{OL}$* = Conjugate of the optimum load impedance into which the device output operates at a given output power, voltage and frequency.

**Figure 8. Series Equivalent Input and Output Impedance**

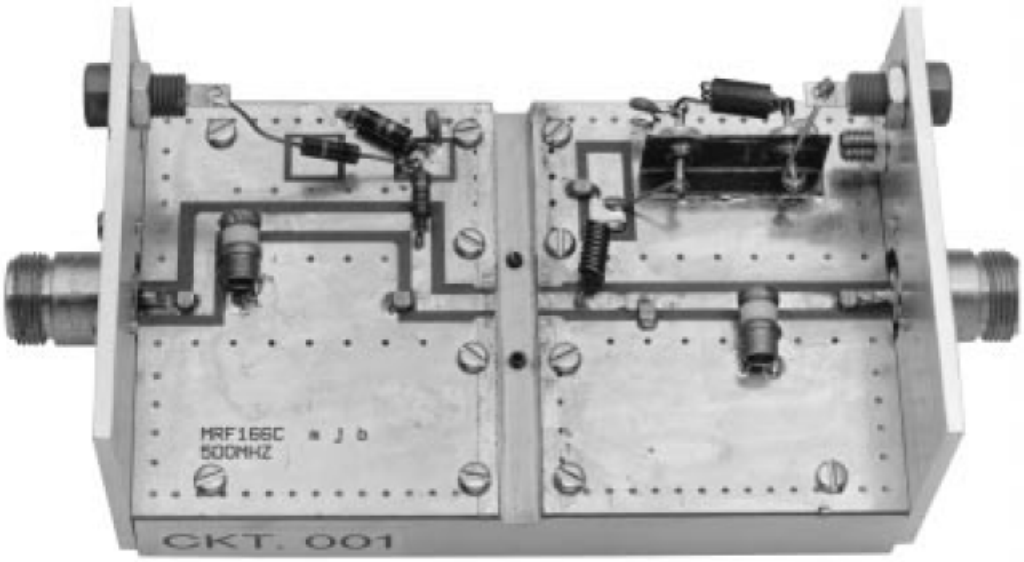


**Figure 9. MRF166C Test Fixture**





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Table 1. Common Source S–Parameters ($V_{DS}$ = 12.5 V, $I_D$ = 1.25 A)

| f | $S_{11}$ | | $S_{21}$ | | $S_{12}$ | | $S_{22}$ | |
|---|---|---|---|---|---|---|---|---|
| MHz | $\|S_{11}\|$ | ϕ | $\|S_{21}\|$ | ϕ | $\|S_{12}\|$ | ϕ | $\|S_{22}\|$ | ϕ |
| 30 | 0.840 | –142 | 22.59 | 105 | 0.025 | 20 | 0.727 | –155 |
| 40 | 0.836 | –151 | 17.4 | 100 | 0.025 | 17 | 0.743 | –161 |
| 50 | 0.832 | –156 | 14.1 | 97 | 0.026 | 15 | 0.751 | –164 |
| 60 | 0.829 | –159 | 12.0 | 94 | 0.026 | 14 | 0.764 | –166 |
| 70 | 0.826 | –162 | 10.4 | 91 | 0.026 | 14 | 0.763 | –168 |
| 80 | 0.822 | –164 | 9.09 | 90 | 0.026 | 14 | 0.763 | –169 |
| 90 | 0.818 | –165 | 8.07 | 89 | 0.027 | 14 | 0.765 | –170 |
| 100 | 0.819 | –167 | 7.28 | 87 | 0.027 | 14 | 0.774 | –171 |
| 110 | 0.821 | –168 | 6.61 | 85 | 0.027 | 14 | 0.773 | –172 |
| 120 | 0.821 | –169 | 6.00 | 83 | 0.026 | 15 | 0.771 | –172 |
| 130 | 0.820 | –169 | 5.56 | 83 | 0.027 | 16 | 0.778 | –172 |
| 140 | 0.818 | –170 | 5.22 | 82 | 0.027 | 17 | 0.785 | –172 |
| 150 | 0.820 | –170 | 4.86 | 80 | 0.027 | 17 | 0.786 | –173 |
| 160 | 0.821 | –171 | 4.52 | 79 | 0.027 | 17 | 0.781 | –173 |
| 170 | 0.820 | –171 | 4.23 | 79 | 0.027 | 20 | 0.774 | –172 |
| 180 | 0.820 | –171 | 4.03 | 78 | 0.027 | 20 | 0.799 | –173 |
| 190 | 0.820 | –172 | 3.86 | 76 | 0.027 | 20 | 0.799 | –174 |
| 200 | 0.821 | –172 | 3.62 | 75 | 0.027 | 20 | 0.784 | –175 |
| 210 | 0.822 | –173 | 3.39 | 75 | 0.027 | 22 | 0.780 | –174 |
| 220 | 0.823 | –173 | 3.25 | 74 | 0.027 | 24 | 0.795 | –173 |
| 230 | 0.825 | –173 | 3.12 | 72 | 0.028 | 23 | 0.823 | –175 |
| 240 | 0.827 | –173 | 2.96 | 71 | 0.026 | 24 | 0.791 | –175 |
| 250 | 0.827 | –174 | 2.83 | 70 | 0.027 | 26 | 0.789 | –174 |
| 260 | 0.827 | –174 | 2.71 | 70 | 0.026 | 27 | 0.791 | –174 |
| 270 | 0.829 | –174 | 2.62 | 69 | 0.027 | 28 | 0.801 | –174 |
| 280 | 0.831 | –174 | 2.52 | 68 | 0.027 | 29 | 0.807 | –175 |
| 290 | 0.832 | –174 | 2.42 | 66 | 0.027 | 30 | 0.788 | –175 |
| 300 | 0.832 | –174 | 2.32 | 66 | 0.027 | 32 | 0.792 | –175 |
| 310 | 0.831 | –174 | 2.25 | 66 | 0.027 | 33 | 0.797 | –174 |
| 320 | 0.833 | –175 | 2.18 | 65 | 0.027 | 34 | 0.810 | –174 |
| 330 | 0.836 | –175 | 2.10 | 63 | 0.028 | 35 | 0.812 | –175 |
| 340 | 0.837 | –175 | 2.00 | 62 | 0.027 | 35 | 0.789 | –176 |
| 350 | 0.838 | –175 | 1.95 | 62 | 0.028 | 39 | 0.806 | –173 |
| 360 | 0.839 | –175 | 1.90 | 61 | 0.028 | 39 | 0.817 | –174 |
| 370 | 0.840 | –176 | 1.84 | 60 | 0.028 | 40 | 0.817 | –175 |
| 380 | 0.843 | –176 | 1.77 | 59 | 0.028 | 41 | 0.811 | –175 |
| 390 | 0.845 | –176 | 1.71 | 59 | 0.028 | 42 | 0.805 | –175 |
| 400 | 0.846 | –176 | 1.66 | 58 | 0.029 | 46 | 0.801 | –172 |
| 410 | 0.846 | –176 | 1.64 | 57 | 0.030 | 46 | 0.845 | –174 |
| 420 | 0.847 | –176 | 1.59 | 56 | 0.030 | 46 | 0.836 | –176 |
| 430 | 0.848 | –176 | 1.52 | 56 | 0.030 | 47 | 0.823 | –176 |
| 440 | 0.850 | –176 | 1.48 | 56 | 0.030 | 49 | 0.816 | –174 |

Table 1. Common Source S–Parameters ($V_{DS}$ = 12.5 V, $I_D$ = 1.25 A) (continued)

| f | $S_{11}$ | | $S_{21}$ | | $S_{12}$ | | $S_{22}$ | |
|---|---|---|---|---|---|---|---|---|
| MHz | $\|S_{11}\|$ | ϕ | $\|S_{21}\|$ | ϕ | $\|S_{12}\|$ | ϕ | $\|S_{22}\|$ | ϕ |
| 450 | 0.851 | –176 | 1.47 | 54 | 0.032 | 51 | 0.851 | –174 |
| 460 | 0.853 | –177 | 1.42 | 53 | 0.032 | 48 | 0.849 | –178 |
| 470 | 0.853 | –177 | 1.37 | 53 | 0.031 | 51 | 0.830 | –176 |
| 480 | 0.856 | –177 | 1.34 | 53 | 0.032 | 53 | 0.834 | –176 |
| 490 | 0.857 | –177 | 1.32 | 52 | 0.033 | 54 | 0.841 | –175 |
| 500 | 0.859 | –177 | 1.28 | 51 | 0.034 | 54 | 0.847 | –175 |
| 600 | 0.857 | 178 | 0.988 | 41 | 0.032 | 73 | 0.877 | 180 |
| 700 | 0.884 | 176 | 0.789 | 34 | 0.047 | 65 | 0.881 | 179 |
| 800 | 0.881 | 173 | 0.684 | 30 | 0.031 | 83 | 0.890 | 174 |
| 900 | 0.890 | 172 | 0.580 | 26 | 0.069 | 71 | 0.885 | 176 |
| 1000 | 0.897 | 170 | 0.503 | 24 | 0.090 | 60 | 0.931 | 173 |





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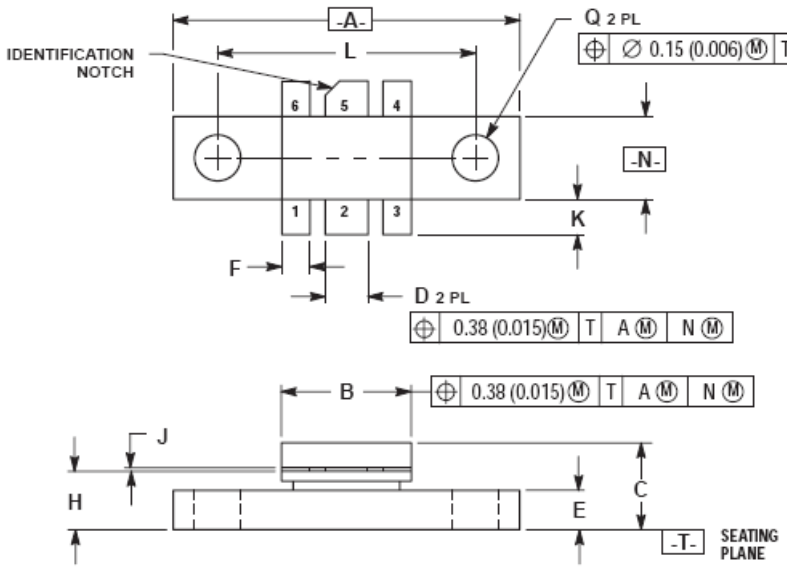
Table 2. Common Source S–Parameters ($V_{DS}$ = 28 V, $I_D$ = 1.25 A)

| f | $S_{11}$ | | $S_{21}$ | | $S_{12}$ | | $S_{22}$ | |
|---|---|---|---|---|---|---|---|---|
| MHz | $\|S_{11}\|$ | ϕ | $\|S_{21}\|$ | ϕ | $\|S_{12}\|$ | ϕ | $\|S_{22}\|$ | ϕ |
| 30 | 0.842 | –125 | 29.6 | 113 | 0.024 | 28 | 0.586 | –136 |
| 40 | 0.831 | –136 | 23.2 | 106 | 0.025 | 22 | 0.607 | –145 |
| 50 | 0.822 | –143 | 19.0 | 101 | 0.026 | 19 | 0.613 | –151 |
| 60 | 0.816 | –148 | 16.2 | 98 | 0.026 | 17 | 0.626 | –155 |
| 70 | 0.812 | –152 | 14.1 | 95 | 0.027 | 16 | 0.635 | –157 |
| 80 | 0.806 | –155 | 12.4 | 92 | 0.026 | 15 | 0.643 | –159 |
| 90 | 0.801 | –157 | 11.1 | 90 | 0.027 | 14 | 0.650 | –160 |
| 100 | 0.802 | –159 | 9.97 | 88 | 0.027 | 13 | 0.656 | –161 |
| 110 | 0.805 | –161 | 9.04 | 86 | 0.027 | 13 | 0.654 | –163 |
| 120 | 0.805 | –162 | 8.22 | 84 | 0.026 | 13 | 0.654 | –163 |
| 130 | 0.803 | –163 | 7.59 | 83 | 0.026 | 14 | 0.663 | –163 |
| 140 | 0.801 | –164 | 7.09 | 82 | 0.026 | 14 | 0.673 | –164 |
| 150 | 0.803 | –165 | 6.61 | 80 | 0.026 | 14 | 0.675 | –164 |
| 160 | 0.804 | –165 | 6.16 | 79 | 0.026 | 14 | 0.674 | –164 |
| 170 | 0.803 | –166 | 5.77 | 78 | 0.026 | 16 | 0.672 | –164 |
| 180 | 0.804 | –166 | 5.49 | 77 | 0.026 | 17 | 0.697 | –164 |
| 190 | 0.806 | –166 | 5.25 | 75 | 0.026 | 16 | 0.700 | –165 |
| 200 | 0.806 | –167 | 4.92 | 73 | 0.025 | 16 | 0.688 | –166 |
| 210 | 0.807 | –168 | 4.60 | 73 | 0.025 | 17 | 0.680 | –165 |
| 220 | 0.809 | –168 | 4.40 | 72 | 0.025 | 19 | 0.689 | –165 |
| 230 | 0.812 | –168 | 4.21 | 70 | 0.025 | 19 | 0.713 | –167 |
| 240 | 0.814 | –169 | 3.99 | 69 | 0.024 | 20 | 0.701 | –167 |
| 250 | 0.815 | –169 | 3.83 | 68 | 0.024 | 21 | 0.707 | –166 |
| 260 | 0.816 | –169 | 3.66 | 67 | 0.024 | 22 | 0.711 | –166 |
| 270 | 0.818 | –169 | 3.52 | 66 | 0.024 | 23 | 0.715 | –166 |
| 280 | 0.821 | –169 | 3.39 | 65 | 0.025 | 24 | 0.718 | –167 |
| 290 | 0.822 | –170 | 3.25 | 63 | 0.024 | 26 | 0.708 | –168 |
| 300 | 0.823 | –170 | 3.11 | 62 | 0.023 | 28 | 0.715 | –167 |

Table 2. Common Source S–Parameters ($V_{DS}$ = 28 V, $I_D$ = 1.25 A) (continued)

| f MHz | $S_{11}$ | | $S_{21}$ | | $S_{12}$ | | $S_{22}$ | |
|---|---|---|---|---|---|---|---|---|
| | $\|S_{11}\|$ | ϕ | $\|S_{21}\|$ | ϕ | $\|S_{12}\|$ | ϕ | $\|S_{22}\|$ | ϕ |
| 310 | 0.822 | –170 | 2.99 | 62 | 0.023 | 29 | 0.725 | –166 |
| 320 | 0.825 | –170 | 2.89 | 61 | 0.024 | 31 | 0.734 | –166 |
| 330 | 0.828 | –171 | 2.78 | 60 | 0.024 | 33 | 0.736 | –167 |
| 340 | 0.830 | –171 | 2.66 | 59 | 0.024 | 33 | 0.724 | –168 |
| 350 | 0.832 | –171 | 2.59 | 58 | 0.024 | 37 | 0.739 | –166 |
| 360 | 0.834 | –171 | 2.52 | 57 | 0.024 | 39 | 0.757 | –166 |
| 370 | 0.836 | –171 | 2.44 | 56 | 0.023 | 39 | 0.755 | –167 |
| 380 | 0.839 | –172 | 2.34 | 55 | 0.023 | 38 | 0.745 | –167 |
| 390 | 0.840 | –172 | 2.26 | 54 | 0.024 | 40 | 0.738 | –168 |
| 400 | 0.841 | –172 | 2.19 | 54 | 0.024 | 46 | 0.735 | –166 |
| 410 | 0.842 | –172 | 2.14 | 53 | 0.025 | 46 | 0.787 | –167 |
| 420 | 0.844 | –172 | 2.09 | 51 | 0.026 | 46 | 0.790 | –168 |
| 430 | 0.845 | –173 | 1.99 | 51 | 0.027 | 49 | 0.777 | –168 |
| 440 | 0.846 | –173 | 1.93 | 51 | 0.026 | 52 | 0.770 | –167 |
| 450 | 0.849 | –173 | 1.91 | 49 | 0.027 | 53 | 0.794 | –167 |
| 460 | 0.853 | –173 | 1.84 | 48 | 0.027 | 51 | 0.803 | –171 |
| 470 | 0.855 | –173 | 1.77 | 47 | 0.027 | 54 | 0.787 | –170 |
| 480 | 0.857 | –174 | 1.72 | 47 | 0.027 | 57 | 0.789 | –169 |
| 490 | 0.857 | –174 | 1.68 | 47 | 0.027 | 56 | 0.796 | –168 |
| 500 | 0.859 | –174 | 1.64 | 46 | 0.029 | 57 | 0.802 | –169 |
| 600 | 0.862 | –179 | 1.18 | 33 | 0.036 | 77 | 0.851 | –173 |
| 700 | 0.893 | 178 | 0.921 | 26 | 0.043 | 75 | 0.856 | –175 |
| 800 | 0.890 | 175 | 0.771 | 22 | 0.043 | 78 | 0.880 | –178 |
| 900 | 0.895 | 173 | 0.635 | 17 | 0.065 | 74 | 0.882 | –178 |
| 1000 | 0.905 | 171 | 0.544 | 14 | 0.086 | 69 | 0.931 | 178 |

## PACKAGE DIMENSIONS




NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

| | INCHES | | MILLIMETER | |
|---|---|---|---|---|
| DIM | MIN | MAX | MIN | MAX |
| A | 0.965 | 0.985 | 24.52 | 25.01 |
| B | 0.355 | 0.375 | 9.02 | 9.52 |
| C | 0.230 | 0.260 | 5.85 | 6.60 |
| D | 0.115 | 0.125 | 2.93 | 3.17 |
| E | 0.102 | 0.114 | 2.59 | 2.90 |
| F | 0.075 | 0.085 | 1.91 | 2.15 |
| H | 0.160 | 0.170 | 4.07 | 4.31 |
| J | 0.004 | 0.006 | 0.11 | 0.15 |
| K | 0.090 | 0.110 | 2.29 | 2.79 |
| L | 0.725 BSC | | 18.42 BSC | |
| N | 0.225 | 0.241 | 5.72 | 6.12 |
| Q | 0.125 | 0.135 | 3.18 | 3.42 |

STYLE 3:
PIN 1. SOURCE (COMMON)
2. GATE (INPUT)
3. SOURCE (COMMON)
4. SOURCE (COMMON)
5. DRAIN (OUTPUT)
6. SOURCE (COMMON)

**CASE 319–07**
**ISSUE M**

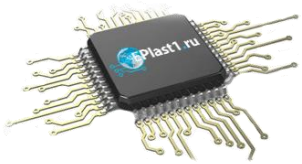
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- 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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