

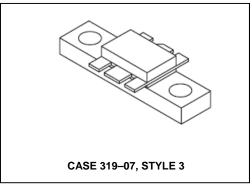
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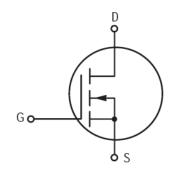
Designed primarily for wideband large-signal output and driver from 30-500MHz.

#### N-Channel enhancement mode MOSFET

- MRF166C Guaranteed performance at 500 MHz, 28 Vdc Output power = 20 W Gain = 13.5 dBEfficiency = 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**





#### MAXIMUM RATINGS

| Rating  | Symbol           | Value      | Unit          |
|---|------------------|------------|---------------|
| Drain-Gate Voltage  | V <sub>DSS</sub> | 65         | Vdc           |
| Drain-Gate Voltage (RGS = 1.0 M $\Omega$ )                            | VDGR             | 65         | Vdc           |
| Gate-Source Voltage   | V <sub>GS</sub>  | ±20        | Adc           |
| Drain Current — Continuous  | ΙD               | 4.0        | Adc           |
| Total Device Dissipation @ T <sub>C</sub> = 25°C<br>Derate Above 25°C | PD               | 70<br>0.4  | Watts<br>W/°C |
| Storage Temperature Range   | T <sub>stg</sub> | -65 to 150 | °C            |
| Operating Junction Temperature  | TJ               | 200        | °C            |

#### THERMAL CHARACTERISTICS

Commitment to produce in volume is not guaranteed.

| Characteristic                       | Symbol            | Max | Unit |
|--------------------------------------|-------------------|-----|------|
| Thermal Resistance, Junction to Case | R <sub>θ</sub> 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.

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 Visit www.macomtech.com for additional data sheets and product information.

### MRF166C



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

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

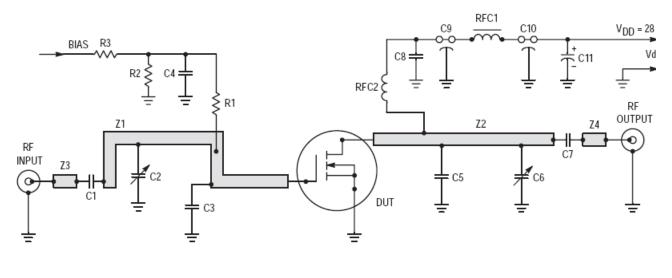
| Characteristic  | Symbol               | Min                            | Тур | Max | Unit |
|---|----------------------|--------------------------------|-----|-----|------|
| OFF CHARACTERISTICS   |                      |                                | •   |     |      |
| Drain–Source Breakdown Voltage<br>(VGS = 0 V, ID = 5.0 mA)  | V <sub>(BR)DSS</sub> | 65                             | _   | _   | ٧    |
| Zero Gate Voltage Drain Current<br>(VDS = 28 V, VGS = 0 V)  | IDSS                 | _                              | _   | 0.5 | mA   |
| Gate-Source Leakage Current<br>(VGS = 20 V, VDS = 0 V)  | IGSS                 | _                              | _   | 1.0 | μА   |
| ON CHARACTERISTICS  |                      |                                | •   |     | •    |
| Gate Threshold Voltage<br>(V <sub>DS</sub> = 10 V, I <sub>D</sub> = 25 mA)  | VGS(th)              | 1.5                            | 3.0 | 4.5 | ٧    |
| Forward Transconductance<br>(VDS = 10 V, ID = 1.5 A)  | 9fs                  | 0.8                            | 1.1 | _   | mhos |
| DYNAMIC CHARACTERISTICS   |                      |                                | •   |     |      |
| Input Capacitance<br>(VDS = 28 V, VGS = 0 V, f = 1.0 MHz)   | C <sub>iss</sub>     | _                              | 28  | _   | pF   |
| Output Capacitance<br>(VDS = 28 V, VGS = 0 V, f = 1.0 MHz)  | C <sub>oss</sub>     | _                              | 30  | _   | pF   |
| Reverse Transfer Capacitance<br>(VDS = 28 V, VGS = 0 V, f = 1.0 MHz)  | C <sub>rss</sub>     | _                              | 4.0 | _   | pF   |
| FUNCTIONAL CHARACTERISTICS  |                      |                                | •   |     |      |
| Common Source Power Gain<br>(V <sub>DD</sub> = 28 V, P <sub>out</sub> = 20 W, f = 500 MHz, I <sub>DQ</sub> = 25 mA) | G <sub>ps</sub>      | 13.5                           | 16  | _   | dB   |
| Drain Efficiency<br>(VDD = 28 V, Pout = 20 W, f = 500 MHz, IDQ = 25 mA)   | η                    | 50                             | 55  | _   | %    |
| Electrical Ruggedness<br>(VDD = 28 V, Pout = 20 W, f = 500 MHz, IDQ = 25 mA,<br>Load VSWR 30:1 at All Phase Angles) | Ψ                    | No Degradation in Output Power |     |     |      |

<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

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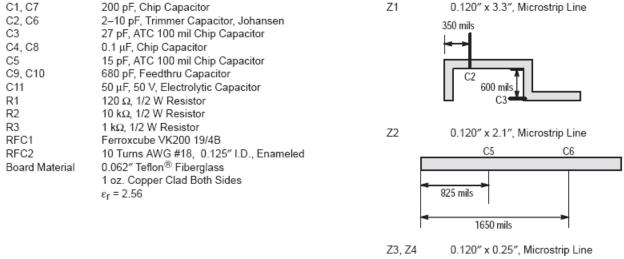


Figure 1. MRF166C 500 MHz Test Circuit

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#### TYPICAL CHARACTERISTICS

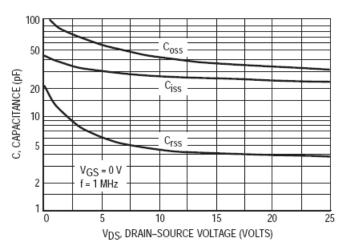


Figure 2. Capacitance versus Drain-Source Voltage

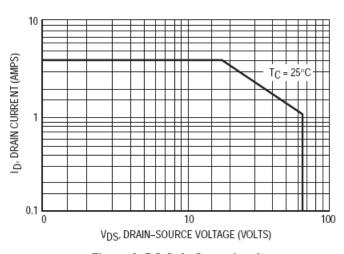


Figure 3. DC Safe Operating Area

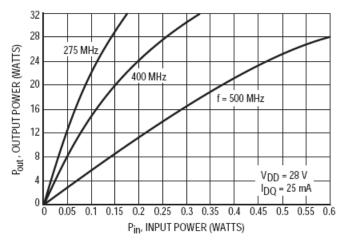


Figure 4. Output Power versus Input Power

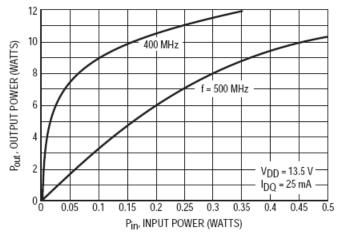


Figure 5. Output Power versus Input Power

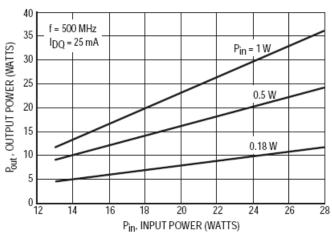
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#### TYPICAL CHARACTERISTICS



P<sub>in</sub>, INPUT POWER (WATTS)

Figure 6. Output Power versus Supply Voltage

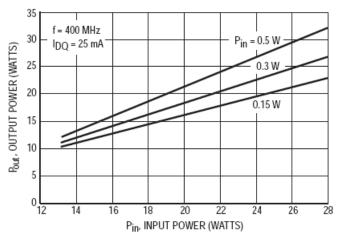
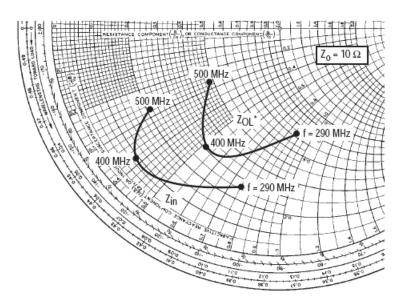


Figure 7. Output Power versus Supply Voltage

<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

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| $V_{DD}$ = 28 V, $I_{DQ}$ = 25 mA, $P_{out}$ = 20 Watts |                         |                           |  |  |  |  |  |  |
|---|-------------------------|---------------------------|--|--|--|--|--|--|
| f<br>MHz  | Z <sub>in</sub><br>Ohms | Z <sub>OL</sub> *<br>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<sub>OL</sub>\* = 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

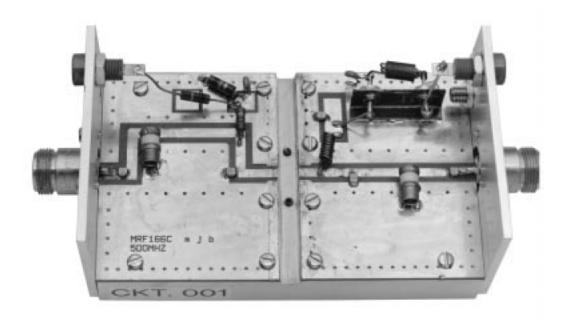


Figure 9. MRF166C Test Fixture

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### MRF166C



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

Table 1. Common Source S-Parameters (VDS = 12.5 V, ID = 1.25 A)

| f   | f \$11          |      | s <sub>21</sub>  |     | S <sub>1</sub>  |    | s <sub>22</sub> |      |  |
|-----|-----------------|------|------------------|-----|-----------------|----|-----------------|------|--|
| MHz | S <sub>11</sub> | ф    | \$ <sub>21</sub> | ф   | S <sub>12</sub> | ф  | S <sub>22</sub> | ф    |  |
| 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 |  |

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### MRF166C



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

Table 1. Common Source S-Parameters (VDS = 12.5 V, ID = 1.25 A) (continued)

| f    | S               | s <sub>11</sub> s <sub>21</sub> s <sub>12</sub> |                  | s <sub>21</sub> |                 | 12 | s <sub>22</sub> |      |  |
|------|-----------------|---|------------------|-----------------|-----------------|----|-----------------|------|--|
| MHz  | S <sub>11</sub> | ф   | \$ <sub>21</sub> | ф               | S <sub>12</sub> | ф  | S <sub>22</sub> | ф    |  |
| 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 (VDS = 28 V, ID = 1.25 A)

| f   | s               | 11   | s <sub>21</sub>  |     | s               | S <sub>12</sub> |                  | s <sub>22</sub> |  |
|-----|-----------------|------|------------------|-----|-----------------|-----------------|------------------|-----------------|--|
| MHz | S <sub>11</sub> | ф    | \$ <sub>21</sub> | ф   | S <sub>12</sub> | ф               | \$ <sub>22</sub> | ф               |  |
| 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            |  |

<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300



Table 2. Common Source S-Parameters (VDS = 28 V, ID = 1.25 A) (continued)

| f    | s               | 11   | S                | s <sub>21</sub> s <sub>12</sub> |                 | s <sub>12</sub> |                 | s <sub>22</sub> |  |
|------|-----------------|------|------------------|---------------------------------|-----------------|-----------------|-----------------|-----------------|--|
| MHz  | S <sub>11</sub> | ф    | \$ <sub>21</sub> | ф                               | S <sub>12</sub> | ф               | S <sub>22</sub> | ф               |  |
| 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             |  |

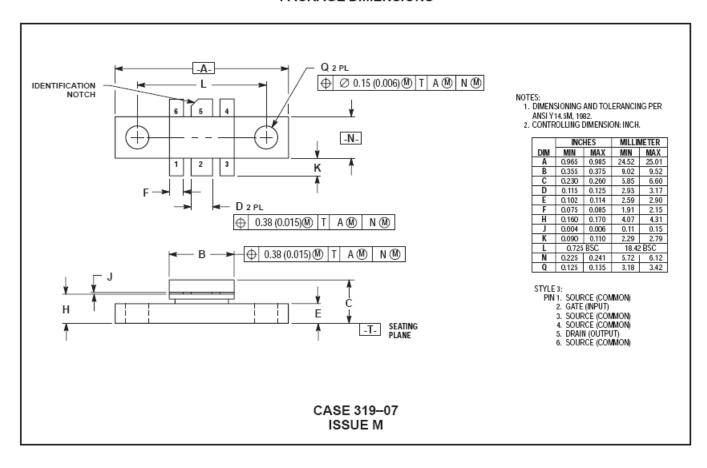
<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

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#### **ПОСТАВКА** ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

# Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

#### http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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