

# 1 WATT METAL

| Value in Ohms | NTE Stock Number | Value in Ohms | NTE Stock Number | Value in Ohms | NTE Stock Number | Value in Ohms | NTE Stock Number | Value in Ohms | NTE Stock Number | Value in Ohms | NTE Stock Number | Value in Ohms | NTE Stock Number |
|---------------|------------------|---------------|------------------|---------------|------------------|---------------|------------------|---------------|------------------|---------------|------------------|---------------|------------------|
| 0.10          | 1WD10            | 4.3           | 1W4D3            | 56            | 1W056            | 750           | 1W175            | 11K           | 1W311            | 150K          | 1W415            | 2M            | 1W520            |
| 0.12          | 1WD12            | 4.7           | 1W4D7            | 62            | 1W062            | 820           | 1W182            | 12K           | 1W312            | 160K          | 1W416            | 2.2M          | 1W522            |
| 0.15          | 1WD15            | 5.1           | 1W5D1            | 68            | 1W068            | 910           | 1W191            | 13K           | 1W313            | 180K          | 1W418            | 2.4M          | 1W524            |
| 0.18          | 1WD18            | 5.6           | 1W5D6            | 75            | 1W075            | 1K            | 1W210            | 15K           | 1W315            | 200K          | 1W420            | 2.7M          | 1W527            |
| 0.22          | 1WD22            | 6.2           | 1W6D2            | 82            | 1W082            | 1.1K          | 1W211            | 16K           | 1W316            | 220K          | 1W422            | 3M            | 1W530            |
| 0.27          | 1WD27            | 6.8           | 1W6D8            | 91            | 1W091            | 1.2K          | 1W212            | 18K           | 1W318            | 240K          | 1W424            | 3.3M          | 1W533            |
| 0.33          | 1WD33            | 7.5           | 1W7D5            | 100           | 1W110            | 1.3K          | 1W213            | 20K           | 1W320            | 270K          | 1W427            | 3.6M          | 1W536            |
| 0.39          | 1WD39            | 8.2           | 1W8D2            | 110           | 1W111            | 1.5K          | 1W215            | 22K           | 1W322            | 300K          | 1W430            | 3.9M          | 1W539            |
| 0.47          | 1WD47            | 9.1           | 1W9D1            | 120           | 1W112            | 1.6K          | 1W216            | 24K           | 1W324            | 330K          | 1W433            | 4.3M          | 1W543            |
| 0.56          | 1WD56            | 10            | 1W010            | 130           | 1W113            | 1.8K          | 1W218            | 27K           | 1W327            | 360K          | 1W436            | 4.7M          | 1W547            |
| 0.68          | 1WD68            | 11            | 1W011            | 150           | 1W115            | 2K            | 1W220            | 30K           | 1W330            | 390K          | 1W439            | 5.1M          | 1W551            |
| 0.82          | 1WD82            | 12            | 1W012            | 160           | 1W116            | 2.2K          | 1W222            | 33K           | 1W333            | 430K          | 1W443            | 5.6M          | 1W556            |
| 1.0           | 1W1D0            | 13            | 1W013            | 180           | 1W118            | 2.7K          | 1W227            | 36K           | 1W336            | 470K          | 1W447            | 6.2M          | 1W562            |
| 1.1           | 1W1D1            | 15            | 1W015            | 200           | 1W120            | 3K            | 1W230            | 39K           | 1W339            | 510K          | 1W451            | 6.8M          | 1W568            |
| 1.2           | 1W1D2            | 16            | 1W016            | 220           | 1W122            | 3.3K          | 1W233            | 43K           | 1W343            | 560K          | 1W456            | 7.5M          | 1W575            |
| 1.3           | 1W1D3            | 18            | 1W018            | 240           | 1W124            | 3.6K          | 1W236            | 47K           | 1W347            | 620K          | 1W462            | 8.2M          | 1W582            |
| 1.5           | 1W1D5            | 20            | 1W020            | 270           | 1W127            | 3.9K          | 1W239            | 51K           | 1W351            | 680K          | 1W468            | 9.1M          | 1W591            |
| 1.6           | 1W1D6            | 22            | 1W022            | 300           | 1W130            | 4.3K          | 1W243            | 56K           | 1W356            | 750K          | 1W475            | 10M           | 1W610            |
| 1.8           | 1W1D8            | 24            | 1W024            | 330           | 1W133            | 4.7K          | 1W247            | 62K           | 1W362            | 820K          | 1W482            | 11M           | 1W611            |
| 2.0           | 1W2D0            | 27            | 1W027            | 360           | 1W136            | 5.1K          | 1W251            | 68K           | 1W368            | 910K          | 1W491            | 12M           | 1W612            |
| 2.2           | 1W2D2            | 30            | 1W030            | 390           | 1W139            | 5.6K          | 1W256            | 75K           | 1W375            | 1M            | 1W510            | 13M           | 1W613            |
| 2.4           | 1W2D4            | 33            | 1W033            | 430           | 1W143            | 6.2K          | 1W262            | 82K           | 1W382            | 1.1M          | 1W511            | 15M           | 1W615            |
| 2.7           | 1W2D7            | 36            | 1W036            | 470           | 1W147            | 6.8K          | 1W268            | 91K           | 1W391            | 1.2M          | 1W512            | 16M           | 1W616            |
| 3.0           | 1W3D0            | 39            | 1W039            | 510           | 1W151            | 7.5K          | 1W275            | 100K          | 1W410            | 1.3M          | 1W513            | 18M           | 1W618            |
| 3.3           | 1W3D3            | 43            | 1W043            | 560           | 1W156            | 8.2K          | 1W282            | 110K          | 1W411            | 1.5M          | 1W515            | 20M           | 1W620            |
| 3.6           | 1W3D6            | 47            | 1W047            | 620           | 1W162            | 9.1K          | 1W291            | 120K          | 1W412            | 1.6M          | 1W516            | 22M           | 1W622            |
| 3.9           | 1W3D9            | 51            | 1W051            | 680           | 1W168            | 10K           | 1W310            | 130K          | 1W413            | 1.8M          | 1W518            |               |                  |

## SPECIFICATIONS

### Electrical Characteristics @ 70°C

| NTE Number     | Resistance Range (Ohms) | Tolerance (%) | Voltage (Volts) | Operating Temperature (T <sub>opr</sub> ) | Temperature Coefficient (PPM/°C) |
|----------------|-------------------------|---------------|-----------------|---|----------------------------------|
| 1WD10 to 1W9D1 | 0.10 to 9.1             | 5             | 350             | -55° to +200°C (Note)                     | 200                              |
| 1W010 to 1W510 | 10 to 1M                | 2             | 500             | -55° to +200°C                            | 200                              |
| 1W511 to 1W622 | 1.1M to 22M             | 2             | 350             | -55° to +200°C                            | 200                              |

**Note:** For values less than 0.2Ω, the Operating Temperature is -55° to +155°C.

### Mechanical\* (Typical, inches/mm)

| NTE Number     | Body Length (L) | Body Diameter (D) | Lead Diameter (d) | Lead Length (LL) |
|----------------|-----------------|-------------------|-------------------|------------------|
| 1WD10 to 1W9D1 | 0.425 (10.8)    | 0.155 (3.9)       | 0.027 (0.7)       | 1.375 (35)       |
| 1W010 to 1W510 | 0.440 (11.8)    | 0.157 (4.0)       | 0.032 (0.83)      | 1.18 (30)        |
| 1W511 to 1W622 | 0.425 (10.8)    | 0.155 (3.9)       | 0.027 (0.7)       | 1.375 (35)       |

\* These dimensions are for reference only, please consult the factory for actual size.

