

# Precision Metal Film Fixed Resistor Axial Leaded



## Features

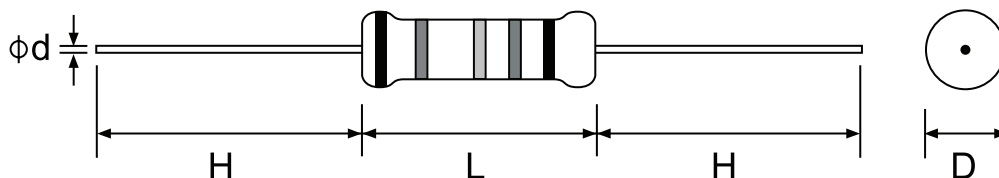
- EIA standard colour-coding
- Non-Flame type available
- Low noise and voltage coefficient
- Low temperature coefficient range
- Wide precision range in small package
- Too low or too high ohmic value can be supplied on a case to case basis
- Nichrome resistor element provides stable performance in various environments
- Multiple epoxy coating on vacuum-deposited metal film provides superior moisture protection

## Performance Specification

|                                 |                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------|
| Temperature Coefficient         | : Within the maximum temperature coefficient specified.                                         |
| Short Time Overload             | : $\pm(0.5\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.                         |
| Insulation Resistance           | : Min. 1,000M $\Omega$                                                                          |
| Dielectric Withstanding Voltage | : No evidence of flashover, mechanical damage, arcing or insulation breakdown.                  |
| Pulse Overload                  | : $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.                           |
| Terminal Strength               | : No evidence of mechanical damage.                                                             |
| Resistance to Soldering Heat    | : $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.                           |
| Solderability                   | : Min. 95% coverage                                                                             |
| Resistance to Solvent           | : No deterioration of protective coating and markings                                           |
| Temperature Cycling             | : $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.                           |
| Humidity (Steady state)         | : $\pm(2\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.                           |
| Load Life in Humidity           | : Normal Type : $\pm(1.5\% + 0.05\Omega)$ Max.<br>Non-Flame Type : $\pm(5\% + 0.05\Omega)$ Max. |
| Load Life                       | : Normal Type : $\pm(1.5\% + 0.05\Omega)$ Max.<br>Non-Flame Type : $\pm(5\% + 0.05\Omega)$ Max. |

# Precision Metal Film Fixed Resistor

## Axial Leaded



| Style | Power Rating at +70°C | Dimension (mm) |       |      |         |    |
|-------|-----------------------|----------------|-------|------|---------|----|
|       |                       | D Max.         | LMax. | H ±3 | d ±0.05 | PT |
| MF12  | 1/8W<br>(125mW)       | 1.85           | 3.5   | 28   | 0.45    | 52 |
| MF25  | 1/4W<br>(250mW)       | 2.5            | 6.8   |      | 0.54*   |    |
| MF50  | 1/2W<br>(500mW)       | 3.5            | 10    |      | 0.54    |    |

### Note:

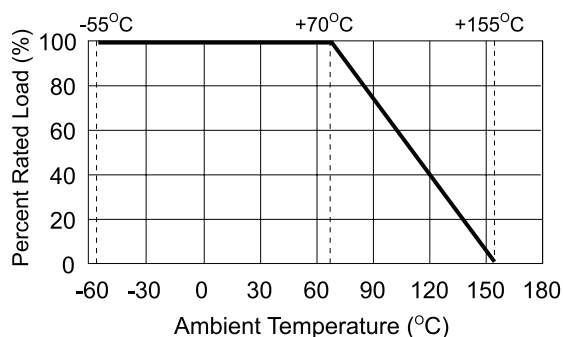
\*Lead diameter of MCMF0W4 series can be provided in 0.5mm, 0.54mm and 0.6mm.

## Specification Table

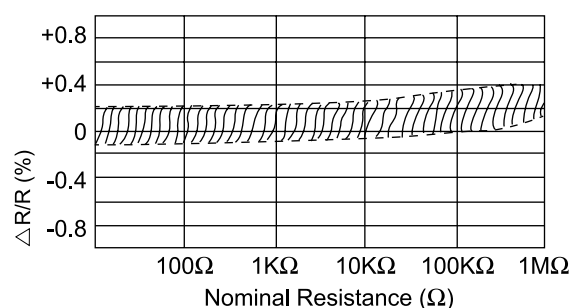
| Style | Dielectric Withstanding Voltage (V) | Max. Working Voltage (V) | Max. Overload Voltage (V) | Resistance Tolerance | Temperature Coefficient | Resistance Range |
|-------|-------------------------------------|--------------------------|---------------------------|----------------------|-------------------------|------------------|
| MF12  | 400                                 | 200                      | 400                       | ±1%                  | ±50ppm / °C             | 1Ω to 1MΩ        |
| MF25  | 500                                 | 250                      | 500                       |                      |                         |                  |
| MF50  | 700                                 | 350                      | 700                       |                      |                         |                  |

Dimensions : Millimetres

## Derating Curve



## Derating Curve

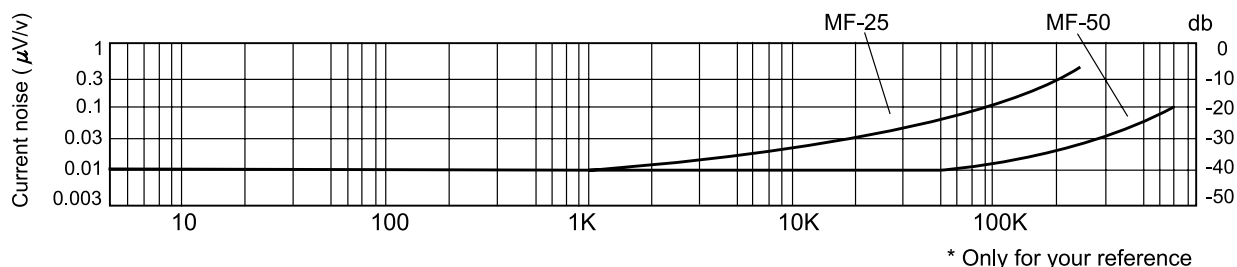


# Precision Metal Film Fixed Resistor

## Axial Leaded



### Current Noise Level



### Part Number Table

| Description                      | Part Number      |
|----------------------------------|------------------|
| Resistor, 100R, 250mW 0.5% 50PPM | MCMF0W4DF1000A50 |
| Resistor, 1K0, 250mW 0.5% 50PPM  | MCMF0W4DF1001A50 |
| Resistor, 10K0, 250mW 0.5% 50PPM | MCMF0W4DF1002A50 |
| Resistor, 100K, 250mW, 0.5%      | MCMF0W4DF1003A50 |
| Resistor, 1K05, 250mW 0.5% 50PPM | MCMF0W4DF1051A50 |
| Resistor, 10K5, 250mW 0.5% 50PPM | MCMF0W4DF1052A50 |
| Resistor, 105K, 250mW 0.5% 50PPM | MCMF0W4DF1053A50 |
| Resistor, 110R, 250mW 0.5% 50PPM | MCMF0W4DF1100A50 |
| Resistor, 1K10, 250mW 0.5% 50PPM | MCMF0W4DF1101A50 |
| Resistor, 11K0, 250mW 0.5% 50PPM | MCMF0W4DF1102A50 |
| Resistor, 110K, 250mW 0.5% 50PPM | MCMF0W4DF1103A50 |
| Resistor, 1K15, 250mW 0.5% 50PPM | MCMF0W4DF1151A50 |
| Resistor, 11K5, 250mW 0.5% 50PPM | MCMF0W4DF1152A50 |
| Resistor, 115K, 250mW 0.5% 50PPM | MCMF0W4DF1153A50 |
| Resistor, 121R, 250mW 0.5% 50PPM | MCMF0W4DF1210A50 |
| Resistor, 1K21, 250mW 0.5% 50PPM | MCMF0W4DF1211A50 |
| Resistor, 12K1, 250mW 0.5% 50PPM | MCMF0W4DF1212A50 |
| Resistor, 121K, 250mW 0.5% 50PPM | MCMF0W4DF1213A50 |
| Resistor, 127R, 250mW 0.5% 50PPM | MCMF0W4DF1270A50 |
| Resistor, 1K27, 250mW 0.5% 50PPM | MCMF0W4DF1271A50 |
| Resistor, 127K, 250mW 0.5% 50PPM | MCMF0W4DF1273A50 |
| Resistor, 133R, 250mW 0.5% 50PPM | MCMF0W4DF1330A50 |
| Resistor, 1K33, 250mW 0.5% 50PPM | MCMF0W4DF1331A50 |
| Resistor, 13K3, 250mW 0.5% 50PPM | MCMF0W4DF1332A50 |
| Resistor, 133K, 250mW 0.5% 50PPM | MCMF0W4DF1333A50 |
| Resistor, 140R, 250mW 0.5% 50PPM | MCMF0W4DF1400A50 |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description                      | Part Number      |
|----------------------------------|------------------|
| Resistor, 1K40, 250mW 0.5% 50PPM | MCMF0W4DF1401A50 |
| Resistor, 14K0, 250mW 0.5% 50PPM | MCMF0W4DF1402A50 |
| Resistor, 140K, 250mW 0.5% 50PPM | MCMF0W4DF1403A50 |
| Resistor, 1K47, 250mW 0.5% 50PPM | MCMF0W4DF1471A50 |
| Resistor, 14K7, 250mW 0.5% 50PPM | MCMF0W4DF1472A50 |
| Resistor, 154R, 250mW 0.5% 50PPM | MCMF0W4DF1540A50 |
| Resistor, 1K54, 250mW 0.5% 50PPM | MCMF0W4DF1541A50 |
| Resistor, 15K4, 250mW 0.5% 50PPM | MCMF0W4DF1542A50 |
| Resistor, 154K, 250mW 0.5% 50PPM | MCMF0W4DF1543A50 |
| Resistor, 162R, 250mW 0.5% 50PPM | MCMF0W4DF1620A50 |
| Resistor, 1K62, 250mW 0.5% 50PPM | MCMF0W4DF1621A50 |
| Resistor, 16K2, 250mW 0.5% 50PPM | MCMF0W4DF1622A50 |
| Resistor, 162K, 250mW 0.5% 50PPM | MCMF0W4DF1623A50 |
| Resistor, 16K5, 250mW 0.5% 50PPM | MCMF0W4DF1652A50 |
| Resistor, 169R, 250mW 0.5% 50PPM | MCMF0W4DF1690A50 |
| Resistor, 1K69, 250mW 0.5% 50PPM | MCMF0W4DF1691A50 |
| Resistor, 16K9, 250mW 0.5% 50PPM | MCMF0W4DF1692A50 |
| Resistor, 169K, 250mW 0.5% 50PPM | MCMF0W4DF1693A50 |
| Resistor, 178R, 250mW 0.5% 50PPM | MCMF0W4DF1780A50 |
| Resistor, 1K78, 250mW 0.5% 50PPM | MCMF0W4DF1781A50 |
| Resistor, 17K8, 250mW 0.5% 50PPM | MCMF0W4DF1782A50 |
| Resistor, 178K, 250mW 0.5% 50PPM | MCMF0W4DF1783A50 |
| Resistor, 187R, 250mW 0.5% 50PPM | MCMF0W4DF1870A50 |
| Resistor, 1K87, 250mW 0.5% 50PPM | MCMF0W4DF1871A50 |
| Resistor, 18K7, 250mW 0.5% 50PPM | MCMF0W4DF1872A50 |
| Resistor, 187K, 250mW 0.5% 50PPM | MCMF0W4DF1873A50 |
| Resistor, 196R, 250mW 0.5% 50PPM | MCMF0W4DF1960A50 |
| Resistor, 19K6, 250mW 0.5% 50PPM | MCMF0W4DF1962A50 |
| Resistor, 196K, 250mW 0.5% 50PPM | MCMF0W4DF1963A50 |
| Resistor, 205R, 250mW 0.5% 50PPM | MCMF0W4DF2050A50 |
| Resistor, 2K05, 250mW 0.5% 50PPM | MCMF0W4DF2051A50 |
| Resistor, 20K5, 250mW 0.5% 50PPM | MCMF0W4DF2052A50 |
| Resistor, 205K, 250mW 0.5% 50PPM | MCMF0W4DF2053A50 |
| Resistor, 215R, 250mW 0.5% 50PPM | MCMF0W4DF2150A50 |
| Resistor, 2K15, 250mW 0.5% 50PPM | MCMF0W4DF2151A50 |
| Resistor, 21K5, 250mW 0.5% 50PPM | MCMF0W4DF2152A50 |
| Resistor, 215K, 250mW 0.5% 50PPM | MCMF0W4DF2153A50 |

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| Description                      | Part Number      |
|----------------------------------|------------------|
| Resistor, 226R, 250mW 0.5% 50PPM | MCMF0W4DF2260A50 |
| Resistor, 2K26, 250mW 0.5% 50PPM | MCMF0W4DF2261A50 |
| Resistor, 22K6, 250mW 0.5% 50PPM | MCMF0W4DF2262A50 |
| Resistor, 226K, 250mW 0.5% 50PPM | MCMF0W4DF2263A50 |
| Resistor, 237R, 250mW 0.5% 50PPM | MCMF0W4DF2370A50 |
| Resistor, 2K37, 250mW 0.5% 50PPM | MCMF0W4DF2371A50 |
| Resistor, 23K7, 250mW 0.5% 50PPM | MCMF0W4DF2372A50 |
| Resistor, 237K, 250mW 0.5% 50PPM | MCMF0W4DF2373A50 |
| Resistor, 249R, 250mW 0.5% 50PPM | MCMF0W4DF2490A50 |
| Resistor, 2K49, 250mW 0.5% 50PPM | MCMF0W4DF2491A50 |
| Resistor, 24K9, 250mW 0.5% 50PPM | MCMF0W4DF2492A50 |
| Resistor, 249K, 250mW 0.5% 50PPM | MCMF0W4DF2493A50 |
| Resistor, 261R, 250mW 0.5% 50PPM | MCMF0W4DF2610A50 |
| Resistor, 2K61, 250mW 0.5% 50PPM | MCMF0W4DF2611A50 |
| Resistor, 26K1, 250mW 0.5% 50PPM | MCMF0W4DF2612A50 |
| Resistor, 261K, 250mW 0.5% 50PPM | MCMF0W4DF2613A50 |
| Resistor, 26R1, 250mW 0.5% 50PPM | MCMF0W4DF261JA50 |
| Resistor, 274R, 250mW 0.5% 50PPM | MCMF0W4DF2740A50 |
| Resistor, 2K74, 250mW 0.5% 50PPM | MCMF0W4DF2741A50 |
| Resistor, 27K4, 250mW 0.5% 50PPM | MCMF0W4DF2742A50 |
| Resistor, 274K, 250mW 0.5% 50PPM | MCMF0W4DF2743A50 |
| Resistor, 27R7, 250mW 0.5% 50PPM | MCMF0W4DF277JA50 |
| Resistor, 287R, 250mW 0.5% 50PPM | MCMF0W4DF2870A50 |
| Resistor, 2K87, 250mW 0.5% 50PPM | MCMF0W4DF2871A50 |
| Resistor, 28K7, 250mW 0.5% 50PPM | MCMF0W4DF2872A50 |
| Resistor, 287K, 250mW 0.5% 50PPM | MCMF0W4DF2873A50 |
| Resistor, 28R7, 250mW 0.5% 50PPM | MCMF0W4DF287JA50 |
| Resistor, 301R, 250mW 0.5% 50PPM | MCMF0W4DF3010A50 |
| Resistor, 3K01, 250mW 0.5% 50PPM | MCMF0W4DF3011A50 |
| Resistor, 30K1, 250mW 0.5% 50PPM | MCMF0W4DF3012A50 |
| Resistor, 301K, 250mW 0.5% 50PPM | MCMF0W4DF3013A50 |
| Resistor, 30R1, 250mW 0.5% 50PPM | MCMF0W4DF301JA50 |
| Resistor, 316R, 250mW 0.5% 50PPM | MCMF0W4DF3160A50 |
| Resistor, 3K16, 250mW 0.5% 50PPM | MCMF0W4DF3161A50 |
| Resistor, 31K6, 250mW 0.5% 50PPM | MCMF0W4DF3162A50 |
| Resistor, 316K, 250mW 0.5% 50PPM | MCMF0W4DF3163A50 |
| Resistor, 31R6, 250mW 0.5% 50PPM | MCMF0W4DF316JA50 |

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| Description                      | Part Number      |
|----------------------------------|------------------|
| Resistor, 332R, 250mW 0.5% 50PPM | MCMF0W4DF3320A50 |
| Resistor, 3K32, 250mW 0.5% 50PPM | MCMF0W4DF3321A50 |
| Resistor, 33K2, 250mW 0.5% 50PPM | MCMF0W4DF3322A50 |
| Resistor, 332K, 250mW 0.5% 50PPM | MCMF0W4DF3323A50 |
| Resistor, 33R2, 250mW 0.5% 50PPM | MCMF0W4DF332JA50 |
| Resistor, 348R, 250mW 0.5% 50PPM | MCMF0W4DF3480A50 |
| Resistor, 3K48, 250mW 0.5% 50PPM | MCMF0W4DF3481A50 |
| Resistor, 34K8, 250mW 0.5% 50PPM | MCMF0W4DF3482A50 |
| Resistor, 348K, 250mW 0.5% 50PPM | MCMF0W4DF3483A50 |
| Resistor, 34R8, 250mW 0.5% 50PPM | MCMF0W4DF348JA50 |
| Resistor, 365R, 250mW 0.5% 50PPM | MCMF0W4DF3650A50 |
| Resistor, 3K65, 250mW 0.5% 50PPM | MCMF0W4DF3651A50 |
| Resistor, 36K5, 250mW 0.5% 50PPM | MCMF0W4DF3652A50 |
| Resistor, 36R5, 250mW 0.5% 50PPM | MCMF0W4DF365JA50 |
| Resistor, 383R, 250mW 0.5% 50PPM | MCMF0W4DF3830A50 |
| Resistor, 3K83, 250mW 0.5% 50PPM | MCMF0W4DF3831A50 |
| Resistor, 38K3, 250mW 0.5% 50PPM | MCMF0W4DF3832A50 |
| Resistor, 38R3, 250mW 0.5% 50PPM | MCMF0W4DF383JA50 |
| Resistor, 402R, 250mW 0.5% 50PPM | MCMF0W4DF4020A50 |
| Resistor, 4K02, 250mW 0.5% 50PPM | MCMF0W4DF4021A50 |
| Resistor, 40K2, 250mW 0.5% 50PPM | MCMF0W4DF4022A50 |
| Resistor, 40R2, 250mW 0.5% 50PPM | MCMF0W4DF402JA50 |
| Resistor, 422R, 250mW 0.5% 50PPM | MCMF0W4DF4220A50 |
| Resistor, 42K2, 250mW 0.5% 50PPM | MCMF0W4DF4222A50 |
| Resistor, 42R2, 250mW 0.5% 50PPM | MCMF0W4DF422JA50 |
| Resistor, 442R, 250mW 0.5% 50PPM | MCMF0W4DF4420A50 |
| Resistor, 4K42, 250mW 0.5% 50PPM | MCMF0W4DF4421A50 |
| Resistor, 44K2, 250mW 0.5% 50PPM | MCMF0W4DF4422A50 |
| Resistor, 44R2, 250mW 0.5% 50PPM | MCMF0W4DF442JA50 |
| Resistor, 464R, 250mW 0.5% 50PPM | MCMF0W4DF4640A50 |
| Resistor, 4K64, 250mW 0.5% 50PPM | MCMF0W4DF4641A50 |
| Resistor, 46K4, 250mW 0.5% 50PPM | MCMF0W4DF4642A50 |
| Resistor, 46R4, 250mW 0.5% 50PPM | MCMF0W4DF464JA50 |
| Resistor, 487R, 250mW 0.5% 50PPM | MCMF0W4DF4870A50 |
| Resistor, 4K87, 250mW 0.5% 50PPM | MCMF0W4DF4871A50 |
| Resistor, 48K7, 250mW 0.5% 50PPM | MCMF0W4DF4872A50 |
| Resistor, 48R7, 250mW 0.5% 50PPM | MCMF0W4DF487JA50 |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description                      | Part Number      |
|----------------------------------|------------------|
| Resistor, 5K11, 250mW 0.5% 50PPM | MCMF0W4DF5111A50 |
| Resistor, 51K1, 250mW 0.5% 50PPM | MCMF0W4DF5112A50 |
| Resistor, 51R1, 250mW 0.5% 50PPM | MCMF0W4DF511JA50 |
| Resistor, 536R, 250mW 0.5% 50PPM | MCMF0W4DF5360A50 |
| Resistor, 5K36, 250mW 0.5% 50PPM | MCMF0W4DF5361A50 |
| Resistor, 53K6, 250mW 0.5% 50PPM | MCMF0W4DF5362A50 |
| Resistor, 53R6, 250mW 0.5% 50PPM | MCMF0W4DF536JA50 |
| Resistor, 562R, 250mW 0.5% 50PPM | MCMF0W4DF5620A50 |
| Resistor, 5K62, 250mW 0.5% 50PPM | MCMF0W4DF5621A50 |
| Resistor, 56K2, 250mW 0.5% 50PPM | MCMF0W4DF5622A50 |
| Resistor, 56R2, 250mW 0.5% 50PPM | MCMF0W4DF562JA50 |
| Resistor, 590R, 250mW 0.5% 50PPM | MCMF0W4DF5900A50 |
| Resistor, 5K90, 250mW 0.5% 50PPM | MCMF0W4DF5901A50 |
| Resistor, 59K, 250mW 0.5% 50PPM  | MCMF0W4DF5902A50 |
| Resistor, 59R0, 250mW 0.5% 50PPM | MCMF0W4DF590JA50 |
| Resistor, 619R, 250mW 0.5% 50PPM | MCMF0W4DF6190A50 |
| Resistor, 6K19, 250mW 0.5% 50PPM | MCMF0W4DF6191A50 |
| Resistor, 61K9, 250mW 0.5% 50PPM | MCMF0W4DF6192A50 |
| Resistor, 649R, 250mW 0.5% 50PPM | MCMF0W4DF6490A50 |
| Resistor, 64K9, 250mW 0.5% 50PPM | MCMF0W4DF6492A50 |
| Resistor, 64R9, 250mW 0.5% 50PPM | MCMF0W4DF649JA50 |
| Resistor, 681R, 250mW 0.5% 50PPM | MCMF0W4DF6810A50 |
| Resistor, 6K81, 250mW 0.5% 50PPM | MCMF0W4DF6811A50 |
| Resistor, 68K1, 250mW 0.5% 50PPM | MCMF0W4DF6812A50 |
| Resistor, 68R1, 250mW 0.5% 50PPM | MCMF0W4DF681JA50 |
| Resistor, 715R, 250mW 0.5% 50PPM | MCMF0W4DF7150A50 |
| Resistor, 7K15, 250mW 0.5% 50PPM | MCMF0W4DF7151A50 |
| Resistor, 71K5, 250mW 0.5% 50PPM | MCMF0W4DF7152A50 |
| Resistor, 750R, 250mW 0.5% 50PPM | MCMF0W4DF7500A50 |
| Resistor, 7K5, 250mW 0.5% 50PPM  | MCMF0W4DF7501A50 |
| Resistor, 75K, 250mW 0.5% 50PPM  | MCMF0W4DF7502A50 |
| Resistor, 75R0, 250mW 0.5% 50PPM | MCMF0W4DF750JA50 |
| Resistor, 7K87, 250mW 0.5% 50PPM | MCMF0W4DF7871A50 |
| Resistor, 78K7, 250mW 0.5% 50PPM | MCMF0W4DF7872A50 |
| Resistor, 825R, 250mW 0.5% 50PPM | MCMF0W4DF8250A50 |
| Resistor, 8K25, 250mW 0.5% 50PPM | MCMF0W4DF8251A50 |
| Resistor, 82K5, 250mW 0.5% 50PPM | MCMF0W4DF8252A50 |



# Precision Metal Film Fixed Resistor Axial Leaded



| Description                      | Part Number      |
|----------------------------------|------------------|
| Resistor, 82R5, 250mW 0.5% 50PPM | MCMF0W4DF825JA50 |
| Resistor, 866R, 250mW 0.5% 50PPM | MCMF0W4DF8660A50 |
| Resistor, 8K66, 250mW 0.5% 50PPM | MCMF0W4DF8661A50 |
| Resistor, 86K6, 250mW 0.5% 50PPM | MCMF0W4DF8662A50 |
| Resistor, 86R6, 250mW 0.5% 50PPM | MCMF0W4DF866JA50 |
| Resistor, 909R, 250mW 0.5% 50PPM | MCMF0W4DF9090A50 |
| Resistor, 9K09, 250mW 0.5% 50PPM | MCMF0W4DF9091A50 |
| Resistor, 90K9, 250mW 0.5% 50PPM | MCMF0W4DF9092A50 |
| Resistor, 90R9, 250mW 0.5% 50PPM | MCMF0W4DF909JA50 |
| Resistor, 953R, 250mW 0.5% 50PPM | MCMF0W4DF9530A50 |
| Resistor, 9K53, 250mW 0.5% 50PPM | MCMF0W4DF9531A50 |
| Resistor, 95K3, 250mW 0.5% 50PPM | MCMF0W4DF9532A50 |
| Resistor, 95R3, 250mW 0.5% 50PPM | MCMF0W4DF953JA50 |
| Resistor, 511R, 250mW 0.5% 50PPM | MCMF0W4DFA511050 |
| Resistor, 125mW, 1%, 100K        | MF12 100K        |
| Resistor, 125mW, 1%, 100K        | MF12 100K.       |
| Resistor, 125mW, 1%, 100R        | MF12 100R        |
| Resistor, 125mW, 1%, 10K         | MF12 10K         |
| Resistor, 125mW 1% 10R           | MF12 10R         |
| Resistor, 125mW 1% 110K          | MF12 110K        |
| Resistor, 125mW 1% 110R          | MF12 110R        |
| Resistor, 125mW 1% 11K           | MF12 11K         |
| Resistor, 125mW 1% 11K           | MF12 11K.        |
| Resistor, 125mW 1% 11R           | MF12 11R         |
| Resistor, 125mW 1% 120K          | MF12 120K        |
| Resistor, 125mW 1% 120R          | MF12 120R        |
| Resistor, 125mW 1% 12K           | MF12 12K         |
| Resistor, 125mW 1% 12R           | MF12 12R         |
| Resistor, 125mW 1% 130K          | MF12 130K        |
| Resistor, 125mW 1% 130R          | MF12 130R        |
| Resistor, 125mW 1% 130R          | MF12 130R.       |
| Resistor, 125mW 1% 13K           | MF12 13K         |
| Resistor, 125mW 1% 13K           | MF12 13K.        |
| Resistor, 125mW 1% 13R           | MF12 13R         |
| Resistor, 125mW 1% 150K          | MF12 150K        |
| Resistor, 125mW 1% 150R          | MF12 150R        |
| Resistor, 125mW 1% 150R          | MF12 150R.       |



# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 125mW 1% 15K    | MF12 15K    |
| Resistor, 125mW 1% 15R    | MF12 15R    |
| Resistor, 125mW 1% 160K   | MF12 160K   |
| Resistor, 125mW 1% 160R   | MF12 160R   |
| Resistor, 125mW 1% 16K    | MF12 16K    |
| Resistor, 125mW 1% 16R    | MF12 16R    |
| Resistor, 125mW 1% 180K   | MF12 180K   |
| Resistor, 125mW 1% 180R   | MF12 180R   |
| Resistor, 125mW 1% 18K    | MF12 18K    |
| Resistor, 125mW 1% 18R    | MF12 18R    |
| Resistor, 1K, 125mW, 1%   | MF12 1K     |
| Resistor, 125mW 1% 1K1    | MF12 1K1    |
| Resistor, 125mW 1% 1K2    | MF12 1K2    |
| Resistor, 125mW 1% 1K3    | MF12 1K3    |
| Resistor, 125mW, 1%, 1K5  | MF12 1K5    |
| Resistor, 125mW 1% 1K5    | MF12 1K5.   |
| Resistor, 125mW 1% 1K6    | MF12 1K6    |
| Resistor, 125mW 1% 1K8    | MF12 1K8    |
| Resistor, 1MR, 125mW, 1%  | MF12 1M     |
| Resistor, 125mW 1% 1R     | MF12 1R     |
| Resistor, 125mW 1% 1R     | MF12 1R.    |
| Resistor, 125mW 1% 1R5    | MF12 1R5    |
| Resistor, 125mW 1% 200K   | MF12 200K   |
| Resistor, 125mW 1% 200R   | MF12 200R   |
| Resistor, 125mW 1% 20K    | MF12 20K    |
| Resistor, 125mW 1% 20R    | MF12 20R    |
| Resistor, 125mW 1% 220K   | MF12 220K   |
| Resistor, 125mW, 1%, 220R | MF12 220R   |
| Resistor, 125mW, 1%, 22K  | MF12 22K    |
| Resistor, 125mW 1% 22K    | MF12 22K.   |
| Resistor, 125mW 1% 22R    | MF12 22R    |
| Resistor, 125mW 1% 22R    | MF12 22R.   |
| Resistor, 125mW 1% 240K   | MF12 240K   |
| Resistor, 125mW 1% 240R   | MF12 240R   |
| Resistor, 125mW 1% 24K    | MF12 24K    |
| Resistor, 125mW 1% 24R    | MF12 24R    |
| Resistor, 125mW 1% 24R    | MF12 24R.   |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 125mW 1% 270K   | MF12 270K   |
| Resistor, 125mW 1% 270R   | MF12 270R   |
| Resistor, 125mW 1% 27K    | MF12 27K    |
| Resistor, 125mW 1% 27K    | MF12 27K.   |
| Resistor, 125mW 1% 27R    | MF12 27R    |
| Resistor, 125mW 1% 27R    | MF12 27R.   |
| Resistor, 2K, 125mW, 1%   | MF12 2K     |
| Resistor, 2.2K, 125mW, 1% | MF12 2K2    |
| Resistor, 125mW 1% 2K4    | MF12 2K4    |
| Resistor, 125mW 1% 2K7    | MF12 2K7    |
| Resistor, 125mW 1% 2R2    | MF12 2R2    |
| Resistor, 125mW 1% 300K   | MF12 300K   |
| Resistor, 125mW 1% 300R   | MF12 300R   |
| Resistor, 125mW 1% 30K    | MF12 30K    |
| Resistor, 125mW 1% 30R    | MF12 30R    |
| Resistor, 125mW 1% 330K   | MF12 330K   |
| Resistor, 125mW, 1%, 330R | MF12 330R   |
| Resistor, 125mW 1% 330R   | MF12 330R.  |
| Resistor, 125mW 1% 33K    | MF12 33K    |
| Resistor, 125mW 1% 33R    | MF12 33R    |
| Resistor, 125mW 1% 360K   | MF12 360K   |
| Resistor, 125mW 1% 360R   | MF12 360R   |
| Resistor, 125mW 1% 36K    | MF12 36K    |
| Resistor, 125mW 1% 36R    | MF12 36R    |
| Resistor, 125mW 1% 390K   | MF12 390K   |
| Resistor, 125mW 1% 390K   | MF12 390K.  |
| Resistor, 125mW 1% 390R   | MF12 390R   |
| Resistor, 125mW 1% 39K    | MF12 39K    |
| Resistor, 125mW 1% 39R    | MF12 39R    |
| Resistor, 125mW 1% 3K     | MF12 3K     |
| Resistor, 125mW 1% 3K     | MF12 3K.    |
| Resistor, 3.3K, 125mW, 1% | MF12 3K3    |
| Resistor, 125mW 1% 3K6    | MF12 3K6    |
| Resistor, 125mW 1% 3K6    | MF12 3K6.   |
| Resistor, 125mW 1% 3K9    | MF12 3K9    |
| Resistor, 125mW 1% 3R3    | MF12 3R3    |
| Resistor, 125mW 1% 430K   | MF12 430K   |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 125mW 1% 430R   | MF12 430R   |
| Resistor, 125mW 1% 43K    | MF12 43K    |
| Resistor, 125mW 1% 43K    | MF12 43K.   |
| Resistor, 125mW 1% 43R    | MF12 43R    |
| Resistor, 125mW 1% 43R    | MF12 43R.   |
| Resistor, 125mW 1% 470K   | MF12 470K   |
| Resistor, 125mW 1% 470R   | MF12 470R   |
| Resistor, 47K, 125mW, 1%  | MF12 47K    |
| Resistor, 125mW 1% 47R    | MF12 47R    |
| Resistor, 125mW 1% 47R    | MF12 47R.   |
| Resistor, 125mW 1% 4K3    | MF12 4K3    |
| Resistor, 125mW, 1%, 4.7K | MF12 4K7    |
| Resistor, 125mW 1% 4R7    | MF12 4R7    |
| Resistor, 125mW 1% 510K   | MF12 510K   |
| Resistor, 125mW 1% 510R   | MF12 510R   |
| Resistor, 125mW 1% 510R   | MF12 510R.  |
| Resistor, 125mW 1% 51K    | MF12 51K    |
| Resistor, 125mW 1% 51R    | MF12 51R    |
| Resistor, 125mW 1% 560K   | MF12 560K   |
| Resistor, 125mW 1% 560R   | MF12 560R   |
| Resistor, 125mW 1% 560R   | MF12 560R.  |
| Resistor, 125mW 1% 56K    | MF12 56K    |
| Resistor, 125mW 1% 56K    | MF12 56K.   |
| Resistor, 125mW 1% 56R    | MF12 56R    |
| Resistor, 125mW 1% 5K1    | MF12 5K1    |
| Resistor, 125mW 1% 5K6    | MF12 5K6    |
| Resistor, 125mW 1% 620K   | MF12 620K   |
| Resistor, 125mW 1% 620R   | MF12 620R   |
| Resistor, 125mW 1% 62K    | MF12 62K    |
| Resistor, 125mW 1% 62R    | MF12 62R    |
| Resistor, 125mW 1% 62R    | MF12 62R.   |
| Resistor, 125mW 1% 680K   | MF12 680K   |
| Resistor, 125mW 1% 680K   | MF12 680K.  |
| Resistor, 125mW 1% 680R   | MF12 680R   |
| Resistor, 125mW 1% 680R   | MF12 680R.  |
| Resistor, 125mW 1% 68K    | MF12 68K    |
| Resistor, 125mW 1% 68R    | MF12 68R    |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 125mW 1% 6K2    | MF12 6K2    |
| Resistor, 125mW 1% 6K2    | MF12 6K2.   |
| Resistor, 125mW 1% 6K8    | MF12 6K8    |
| Resistor, 125mW 1% 6R8    | MF12 6R8    |
| Resistor, 125mW 1% 6R8    | MF12 6R8.   |
| Resistor, 125mW 1% 750K   | MF12 750K   |
| Resistor, 125mW 1% 750R   | MF12 750R   |
| Resistor, 125mW 1% 750R   | MF12 750R.  |
| Resistor, 125mW 1% 75K    | MF12 75K    |
| Resistor, 125mW 1% 75R    | MF12 75R    |
| Resistor, 125mW 1% 75R    | MF12 75R.   |
| Resistor, 125mW 1% 7K5    | MF12 7K5    |
| Resistor, 125mW 1% 820K   | MF12 820K   |
| Resistor, 125mW 1% 820R   | MF12 820R   |
| Resistor, 125mW 1% 82K    | MF12 82K    |
| Resistor, 125mW 1% 82R    | MF12 82R    |
| Resistor, 125mW 1% 8K2    | MF12 8K2    |
| Resistor, 125mW 1% 8K2    | MF12 8K2.   |
| Resistor, 125mW 1% 910K   | MF12 910K   |
| Resistor, 125mW 1% 910R   | MF12 910R   |
| Resistor, 125mW 1% 91K    | MF12 91K    |
| Resistor, 125mW 1% 91R    | MF12 91R    |
| Resistor, 125mW 1% 9K1    | MF12 9K1    |
| Resistor, 125mW 1% 9K1    | MF12 9K1.   |
| Resistor, 100K, 250mW, 1% | MF25 100K   |
| Resistor, 100R, 250mW, 1% | MF25 100R   |
| Resistor, 250mW 1% 100R   | MF25 100R.  |
| Resistor, 250mW, 1%, 10K  | MF25 10K    |
| Resistor, 250mW, 1%, 10R  | MF25 10R    |
| Resistor, 250mW 1% 110K   | MF25 110K   |
| Resistor, 250mW 1% 110K   | MF25 110K.  |
| Resistor, 250mW 1% 110R   | MF25 110R   |
| Resistor, 250mW 1% 110R   | MF25 110R.  |
| Resistor, 250mW 1% 11K    | MF25 11K    |
| Resistor, 250mW 1% 11R    | MF25 11R    |
| Resistor, 250mW 1% 120K   | MF25 120K   |
| Resistor, 250mW, 1%, 120R | MF25 120R   |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 250mW, 1%, 12K  | MF25 12K    |
| Resistor, 250mW, 1% 12K   | MF25 12K.   |
| Resistor, 250mW 1% 12R    | MF25 12R    |
| Resistor, 250mW 1% 130K   | MF25 130K   |
| Resistor, 250mW 1% 130R   | MF25 130R   |
| Resistor, 250mW 1% 13K    | MF25 13K    |
| Resistor, 250mW 1% 13R    | MF25 13R    |
| Resistor, 250mW, 1%, 150K | MF25 150K   |
| Resistor, 250mW 1%, 150K  | MF25 150K.  |
| Resistor, 250mW, 1%, 150R | MF25 150R   |
| Resistor, 250mW, 1%, 15K, | MF25 15K    |
| Resistor, 250mW 1% 15R    | MF25 15R    |
| Resistor, 250mW 1% 160K   | MF25 160K   |
| Resistor, 250mW 1% 160R   | MF25 160R   |
| Resistor, 250mW 1% 16K    | MF25 16K    |
| Resistor, 250mW 1% 16R    | MF25 16R    |
| Resistor, 250mW 1% 180K   | MF25 180K   |
| Resistor, 250mW 1% 180R   | MF25 180R   |
| Resistor, 250mW, 1%, 18K  | MF25 18K    |
| Resistor, 250mW 1% 18R    | MF25 18R    |
| Resistor, 250mW, 1%, 1K   | MF25 1K     |
| Resistor, 250mW 1% 1K1    | MF25 1K1    |
| Resistor, 250mW, 1%, 1.2K | MF25 1K2    |
| Resistor, 250mW 1% 1K3    | MF25 1K3    |
| Resistor, 1.5K, 250mW, 1% | MF25 1K5    |
| Resistor, 250mW 1% 1K6    | MF25 1K6    |
| Resistor, 250mW 1% 1K6    | MF25 1K6.   |
| Resistor, 250mW 1% 1K8    | MF25 1K8    |
| Resistor, 250mW, 1%, 1MR  | MF25 1M     |
| Resistor, 250mW 1% 1R     | MF25 1R     |
| Resistor, 250mW 1% 1R     | MF25 1R.    |
| Resistor, 250mW 1% 1R5    | MF25 1R5    |
| Resistor, 250mW, 1%, 200K | MF25 200K   |
| Resistor, 250mW, 1%, 200R | MF25 200R   |
| Resistor, 250mW, 1%, 20K  | MF25 20K    |
| Resistor, 250mW 1% 20R    | MF25 20R    |
| Resistor, 250mW, 1%, 220K | MF25 220K   |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 220R, 250mW, 1% | MF25 220R   |
| Resistor, 22K, 250mW, 1%  | MF25 22K    |
| Resistor, 250mW 1% 22R    | MF25 22R    |
| Resistor, 250mW 1% 240K   | MF25 240K   |
| Resistor, 250mW 1% 240R   | MF25 240R   |
| Resistor, 250mW 1% 24K    | MF25 24K    |
| Resistor, 250mW 1% 24R    | MF25 24R    |
| Resistor, 250mW 1% 270K   | MF25 270K   |
| Resistor, 250mW 1% 270R   | MF25 270R   |
| Resistor, 27K, 250mW, 1%  | MF25 27K    |
| Resistor, 250mW 1% 27R    | MF25 27R    |
| Resistor, 250mW 1% 27R    | MF25 27R.   |
| Resistor, 2K, 250mW, 1%   | MF25 2K     |
| Resistor, 2.2K, 250mW, 1% | MF25 2K2    |
| Resistor, 250mW 1% 2K2    | MF25 2K2.   |
| Resistor, 250mW 1% 2K4    | MF25 2K4    |
| Resistor, 2.7K, 250mW, 1% | MF25 2K7    |
| Resistor, 250mW 1% 2R2    | MF25 2R2    |
| Resistor, 250mW 1% 300K   | MF25 300K   |
| Resistor, 250mW 1% 300R   | MF25 300R   |
| Resistor, 250mW 1% 30K    | MF25 30K    |
| Resistor, 250mW 1% 30R    | MF25 30R    |
| Resistor, 250mW 1% 330K   | MF25 330K   |
| Resistor, 250mW 1% 330K   | MF25 330K.  |
| Resistor, 330R, 250mW, 1% | MF25 330R   |
| Resistor, 33K, 250mW, 1%  | MF25 33K    |
| Resistor, 250mW 1% 33R    | MF25 33R    |
| Resistor, 250mW 1% 33R    | MF25 33R.   |
| Resistor, 250mW 1% 360K   | MF25 360K   |
| Resistor, 250mW 1% 360R   | MF25 360R   |
| Resistor, 250mW 1% 360R   | MF25 360R.  |
| Resistor, 250mW 1% 36K    | MF25 36K    |
| Resistor, 250mW 1% 36R    | MF25 36R    |
| Resistor, 250mW 1% 390K   | MF25 390K   |
| Resistor, 250mW 1% 390K   | MF25 390K.  |
| Resistor, 250mW 1% 390R   | MF25 390R   |
| Resistor, 250mW 1% 39K    | MF25 39K    |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 250mW 1% 39R    | MF25 39R    |
| Resistor, 3K, 250mW, 1%   | MF25 3K     |
| Resistor, 3.3K, 250mW, 1% | MF25 3K3    |
| Resistor, 250mW 1% 3K6    | MF25 3K6    |
| Resistor, 250mW 1% 3K6    | MF25 3K6.   |
| Resistor, 3.9K, 250mW, 1% | MF25 3K9    |
| Resistor, 250mW 1% 3R3    | MF25 3R3    |
| Resistor, 250mW 1% 430K   | MF25 430K   |
| Resistor, 250mW 1% 430K   | MF25 430K.  |
| Resistor, 250mW 1% 430R   | MF25 430R   |
| Resistor, 250mW 1% 43K    | MF25 43K    |
| Resistor, 250mW 1% 43K    | MF25 43K.   |
| Resistor, 250mW 1% 43R    | MF25 43R    |
| Resistor, 470K, 250mW, 1% | MF25 470K   |
| Resistor, 250mW 1% 470K   | MF25 470K.  |
| Resistor, 470R, 250mW, 1% | MF25 470R   |
| Resistor, 250mW 1% 470R   | MF25 470R.  |
| Resistor, 47K, 250mW, 1%  | MF25 47K    |
| Resistor, 47R, 250mW, 1%  | MF25 47R    |
| Resistor, 250mW 1% 4K3    | MF25 4K3    |
| Resistor, 4.7K, 250mW, 1% | MF25 4K7    |
| Resistor, 250mW 1% 4K7    | MF25 4K7.   |
| Resistor, 250mW 1% 4R7    | MF25 4R7    |
| Resistor, 250mW 1% 510K   | MF25 510K   |
| Resistor, 250mW 1% 510K   | MF25 510K.  |
| Resistor, 510R, 250mW, 1% | MF25 510R   |
| Resistor, 250mW 1% 51K    | MF25 51K    |
| Resistor, 250mW 1% 51R    | MF25 51R    |
| Resistor, 250mW 1% 560K   | MF25 560K   |
| Resistor, 250mW 1% 560K   | MF25 560K.  |
| Resistor, 560R, 250mW, 1% | MF25 560R   |
| Resistor, 250mW 1% 56K    | MF25 56K    |
| Resistor, 250mW 1% 56R    | MF25 56R    |
| Resistor, 5.1K, 250mW, 1% | MF25 5K1    |
| Resistor, 5.6K, 250mW, 1% | MF25 5K6    |
| Resistor, 250mW 1% 5K6    | MF25 5K6.   |
| Resistor, 250mW 1% 620K   | MF25 620K   |



# Precision Metal Film Fixed Resistor

## Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 250mW 1% 620R   | MF25 620R   |
| Resistor, 250mW 1% 62K    | MF25 62K    |
| Resistor, 250mW 1% 62R    | MF25 62R    |
| Resistor, 250mW 1% 680K   | MF25 680K   |
| Resistor, 680R, 250mW, 1% | MF25 680R   |
| Resistor, 68K, 250mW, 1%  | MF25 68K    |
| Resistor, 250mW 1% 68K    | MF25 68K.   |
| Resistor, 68R, 250mW, 1%  | MF25 68R    |
| Resistor, 250mW 1% 6K2    | MF25 6K2    |
| Resistor, 250mW 1% 6K2    | MF25 6K2.   |
| Resistor, 6.8K, 250mW, 1% | MF25 6K8    |
| Resistor, 250mW 1% 6R8    | MF25 6R8    |
| Resistor, 250mW 1% 6R8    | MF25 6R8.   |
| Resistor, 250mW 1% 750K   | MF25 750K   |
| Resistor, 250mW 1% 750R   | MF25 750R   |
| Resistor, 250mW 1% 75K    | MF25 75K    |
| Resistor, 250mW 1% 75K    | MF25 75K.   |
| Resistor, 250mW 1% 75R    | MF25 75R    |
| Resistor, 250mW 1% 75R    | MF25 75R.   |
| Resistor, 250mW 1% 7K5    | MF25 7K5    |
| Resistor, 250mW 1% 820K   | MF25 820K   |
| Resistor, 250mW 1% 820R   | MF25 820R   |
| Resistor, 250mW 1% 82K    | MF25 82K    |
| Resistor, 250mW 1% 82K    | MF25 82K.   |
| Resistor, 250mW 1% 82R    | MF25 82R    |
| Resistor, 250mW 1% 82R    | MF25 82R.   |
| Resistor, 8.2K, 250mW, 1% | MF25 8K2    |
| Resistor, 250mW 1% 910K   | MF25 910K   |
| Resistor, 250mW 1% 910K   | MF25 910K.  |
| Resistor, 250mW 1% 910R   | MF25 910R   |
| Resistor, 250mW 1% 910R   | MF25 910R.  |
| Resistor, 250mW 1% 91K    | MF25 91K    |
| Resistor, 250mW 1% 91K    | MF25 91K.   |
| Resistor, 250mW 1% 91R    | MF25 91R    |
| Resistor, 250mW 1% 9K1    | MF25 9K1    |
| Resistor, 100K, 500mW, 1% | MF50 100K   |
| Resistor, 500mW 1% 100K   | MF50 100K.  |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description               | Part Number |
|---------------------------|-------------|
| Resistor, 100R, 500mW, 1% | MF50 100R   |
| Resistor, 10K, 500mW, 1%  | MF50 10K    |
| Resistor, 500mW 1% 10R    | MF50 10R    |
| Resistor, 500mW 1% 10R    | MF50 10R.   |
| Resistor, 500mW 1% 110K   | MF50 110K   |
| Resistor, 500mW 1% 110R   | MF50 110R   |
| Resistor, 500mW 1% 11K    | MF50 11K    |
| Resistor, 500mW 1% 11K    | MF50 11K.   |
| Resistor, 500mW 1% 11R    | MF50 11R    |
| Resistor, 500mW 1% 120K   | MF50 120K   |
| Resistor, 500mW 1% 120R   | MF50 120R   |
| Resistor, 500mW 1% 120R   | MF50 120R.  |
| Resistor, 500mW 1% 12K    | MF50 12K    |
| Resistor, 500mW 1% 12R    | MF50 12R    |
| Resistor, 500mW 1% 12R    | MF50 12R.   |
| Resistor, 500mW 1% 130K   | MF50 130K   |
| Resistor, 500mW 1% 130R   | MF50 130R   |
| Resistor, 500mW 1% 13K    | MF50 13K    |
| Resistor, 500mW 1% 13K    | MF50 13K.   |
| Resistor, 500mW 1% 13R    | MF50 13R    |
| Resistor, 500mW 1% 150K   | MF50 150K   |
| Resistor, 500mW 1% 150R   | MF50 150R   |
| Resistor, 500mW 1% 15K    | MF50 15K    |
| Resistor, 500mW 1% 15R    | MF50 15R    |
| Resistor, 500mW 1% 15R    | MF50 15R.   |
| Resistor, 500mW 1% 160K   | MF50 160K   |
| Resistor, 500mW 1% 160K   | MF50 160K.  |
| Resistor, 500mW 1% 160R   | MF50 160R   |
| Resistor, 500mW 1% 16K    | MF50 16K    |
| Resistor, 500mW 1% 16R    | MF50 16R    |
| Resistor, 500mW 1% 180K   | MF50 180K   |
| Resistor, 500mW 1% 180R   | MF50 180R   |
| Resistor, 500mW 1% 18K    | MF50 18K    |
| Resistor, 500mW 1% 18R    | MF50 18R    |
| Resistor, 1K, 500mW, 1%   | MF50 1K     |
| Resistor, 500mW 1% 1K1    | MF50 1K1    |
| Resistor, 500mW 1% 1K2    | MF50 1K2    |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description             | Part Number |
|-------------------------|-------------|
| Resistor, 500mW 1% 1K3  | MF50 1K3    |
| Resistor, 500mW 1% 1K5  | MF50 1K5    |
| Resistor, 500mW 1% 1K6  | MF50 1K6    |
| Resistor, 500mW 1% 1K6  | MF50 1K6.   |
| Resistor, 500mW 1% 1K8  | MF50 1K8    |
| Resistor, 500mW 1% 1M   | MF50 1M     |
| Resistor, 500mW 1% 1M   | MF50 1M.    |
| Resistor, 500mW 1% 1R   | MF50 1R     |
| Resistor, 500mW 1% 1R   | MF50 1R.    |
| Resistor, 500mW 1% 1R5  | MF50 1R5    |
| Resistor, 500mW 1% 200K | MF50 200K   |
| Resistor, 500mW 1% 200K | MF50 200K.  |
| Resistor, 500mW 1% 200R | MF50 200R   |
| Resistor, 500mW 1% 200R | MF50 200R.  |
| Resistor, 500mW 1% 20K  | MF50 20K    |
| Resistor, 500mW 1% 20R  | MF50 20R    |
| Resistor, 500mW 1% 220K | MF50 220K   |
| Resistor, 500mW 1% 220R | MF50 220R   |
| Resistor, 500mW 1% 22K  | MF50 22K    |
| Resistor, 500mW 1% 22R  | MF50 22R    |
| Resistor, 500mW 1% 22R  | MF50 22R.   |
| Resistor, 500mW 1% 240K | MF50 240K   |
| Resistor, 500mW 1% 240R | MF50 240R   |
| Resistor, 500mW 1% 24K  | MF50 24K    |
| Resistor, 500mW 1% 24K  | MF50 24K.   |
| Resistor, 500mW 1% 24R  | MF50 24R    |
| Resistor, 500mW 1% 270K | MF50 270K   |
| Resistor, 500mW 1% 270K | MF50 270K.  |
| Resistor, 500mW 1% 270R | MF50 270R   |
| Resistor, 500mW 1% 27K  | MF50 27K    |
| Resistor, 500mW 1% 27R  | MF50 27R    |
| Resistor, 500mW 1% 2K   | MF50 2K     |
| Resistor, 500mW 1% 2K2  | MF50 2K2    |
| Resistor, 500mW 1% 2K4  | MF50 2K4    |
| Resistor, 500mW 1% 2K7  | MF50 2K7    |
| Resistor, 500mW 1% 2K7  | MF50 2K7.   |
| Resistor, 500mW 1% 2R2  | MF50 2R2    |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description             | Part Number |
|-------------------------|-------------|
| Resistor, 500mW 1% 300K | MF50 300K   |
| Resistor, 500mW 1% 300R | MF50 300R   |
| Resistor, 500mW 1% 30K  | MF50 30K    |
| Resistor, 500mW 1% 30R  | MF50 30R    |
| Resistor, 500mW 1% 330K | MF50 330K   |
| Resistor, 500mW 1% 330R | MF50 330R   |
| Resistor, 500mW 1% 33K  | MF50 33K    |
| Resistor, 500mW 1% 33R  | MF50 33R    |
| Resistor, 500mW 1% 33R  | MF50 33R.   |
| Resistor, 500mW 1% 360K | MF50 360K   |
| Resistor, 500mW 1% 360K | MF50 360K.  |
| Resistor, 500mW 1% 360R | MF50 360R   |
| Resistor, 500mW 1% 36K  | MF50 36K    |
| Resistor, 500mW 1% 36R  | MF50 36R    |
| Resistor, 500mW 1% 390K | MF50 390K   |
| Resistor, 500mW 1% 390K | MF50 390K.  |
| Resistor, 500mW 1% 390R | MF50 390R   |
| Resistor, 500mW 1% 39K  | MF50 39K    |
| Resistor, 500mW 1% 39K  | MF50 39K.   |
| Resistor, 500mW 1% 39R  | MF50 39R    |
| Resistor, 500mW 1% 39R  | MF50 39R.   |
| Resistor, 500mW 1% 3K   | MF50 3K     |
| Resistor, 500mW 1% 3K3  | MF50 3K3    |
| Resistor, 500mW 1% 3K6  | MF50 3K6    |
| Resistor, 500mW 1% 3K6  | MF50 3K6.   |
| Resistor, 500mW 1% 3K9  | MF50 3K9    |
| Resistor, 500mW 1% 3R3  | MF50 3R3    |
| Resistor, 500mW 1% 430K | MF50 430K   |
| Resistor, 500mW 1% 430R | MF50 430R   |
| Resistor, 500mW 1% 430R | MF50 430R.  |
| Resistor, 500mW 1% 43K  | MF50 43K    |
| Resistor, 500mW 1% 43R  | MF50 43R    |
| Resistor, 500mW 1% 470K | MF50 470K   |
| Resistor, 500mW 1% 470K | MF50 470K.  |
| Resistor, 500mW 1% 470R | MF50 470R   |
| Resistor, 500mW 1% 470R | MF50 470R.  |
| Resistor, 500mW 1% 47K  | MF50 47K    |

# Precision Metal Film Fixed Resistor Axial Leaded



| Description             | Part Number |
|-------------------------|-------------|
| Resistor, 500mW 1% 47K  | MF50 47K.   |
| Resistor, 500mW 1% 47R  | MF50 47R    |
| Resistor, 500mW 1% 4K3  | MF50 4K3    |
| Resistor, 500mW 1% 4K3  | MF50 4K3.   |
| Resistor, 500mW 1% 4K7  | MF50 4K7    |
| Resistor, 500mW 1% 4R7  | MF50 4R7    |
| Resistor, 500mW 1% 510K | MF50 510K   |
| Resistor, 500mW 1% 510K | MF50 510K.  |
| Resistor, 500mW 1% 510R | MF50 510R   |
| Resistor, 500mW 1% 51K  | MF50 51K    |
| Resistor, 500mW 1% 51K  | MF50 51K.   |
| Resistor, 500mW 1% 51R  | MF50 51R    |
| Resistor, 500mW 1% 51R  | MF50 51R.   |
| Resistor, 500mW 1% 560K | MF50 560K   |
| Resistor, 500mW 1% 560R | MF50 560R   |
| Resistor, 500mW 1% 560R | MF50 560R.  |
| Resistor, 500mW 1% 56K  | MF50 56K    |
| Resistor, 500mW 1% 56K  | MF50 56K.   |
| Resistor, 500mW 1% 56R  | MF50 56R    |
| Resistor, 500mW 1% 5K1  | MF50 5K1    |
| Resistor, 500mW 1% 5K6  | MF50 5K6    |
| Resistor, 500mW 1% 620K | MF50 620K   |
| Resistor, 500mW 1% 620K | MF50 620K.  |
| Resistor, 500mW 1% 620R | MF50 620R   |
| Resistor, 500mW 1% 62K  | MF50 62K    |
| Resistor, 500mW 1% 62R  | MF50 62R    |
| Resistor, 500mW 1% 62R  | MF50 62R.   |
| Resistor, 500mW 1% 680K | MF50 680K   |
| Resistor, 500mW 1% 680K | MF50 680K.  |
| Resistor, 500mW 1% 680R | MF50 680R   |
| Resistor, 500mW 1% 68K  | MF50 68K    |
| Resistor, 500mW 1% 68R  | MF50 68R    |
| Resistor, 500mW 1% 6K2  | MF50 6K2    |
| Resistor, 500mW 1% 6K8  | MF50 6K8    |
| Resistor, 500mW 1% 6R8  | MF50 6R8    |
| Resistor, 500mW 1% 750K | MF50 750K   |
| Resistor, 500mW 1% 750K | MF50 750K.  |

# Precision Metal Film Fixed Resistor

## Axial Leaded



| Description             | Part Number |
|-------------------------|-------------|
| Resistor, 500mW 1% 750R | MF50 750R   |
| Resistor, 500mW 1% 750R | MF50 750R.  |
| Resistor, 500mW 1% 75K  | MF50 75K    |
| Resistor, 500mW 1% 75R  | MF50 75R    |
| Resistor, 500mW 1% 7K5  | MF50 7K5    |
| Resistor, 500mW 1% 820K | MF50 820K   |
| Resistor, 500mW 1% 820K | MF50 820K.  |
| Resistor, 500mW 1% 820R | MF50 820R   |
| Resistor, 500mW 1% 82K  | MF50 82K    |
| Resistor, 500mW 1% 82R  | MF50 82R    |
| Resistor, 500mW 1% 82R  | MF50 82R.   |
| Resistor, 500mW 1% 8K2  | MF50 8K2    |
| Resistor, 500mW 1% 8K2  | MF50 8K2.   |
| Resistor, 500mW 1% 910K | MF50 910K   |
| Resistor, 500mW 1% 910R | MF50 910R   |
| Resistor, 500mW 1% 910R | MF50 910R.  |
| Resistor, 500mW 1% 91K  | MF50 91K    |
| Resistor, 500mW 1% 91R  | MF50 91R    |
| Resistor, 500mW 1% 91R  | MF50 91R.   |
| Resistor, 500mW 1% 9K1  | MF50 9K1    |
| Resistor, 500mW 1% 9K1  | MF50 9K1.   |

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