



#### **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 basic
- · 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.

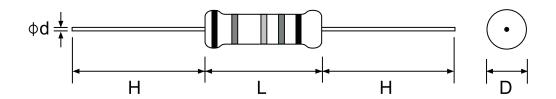
Load Life in Humidity : Normal Type :  $\pm (1.5\% +0.05\Omega)$ Max.

Non-Flame Type :  $\pm (5\% + 0.05\Omega)$ Max. : Normal Type :  $\pm (1.5\% + 0.05\Omega)$ Max.

Load Life : Normal Type :  $\pm (1.5\% + 0.05\Omega)$ Ma Non-Flame Type :  $\pm (5\% + 0.05\Omega)$ Max.







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

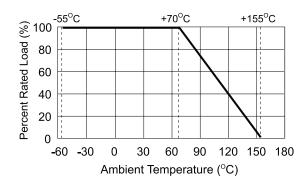
#### Note:

### **Specification Table**

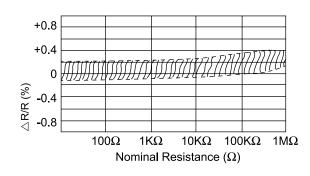
Style	Dielectric Withstanding Voltage (V)	Max. Working Voltage (V)	Max. Overload Voltage (V)	Resistance Tolerance	Temperature Coefficient	Resistance Range
MF12	400	200	400			
MF25	500	250	500	±1%	±50ppm / °C	1Ω to 1MΩ
MF50	700	350	700			

Dimensions: Millimetres

### **Derating Curve**



#### **Derating Curve**



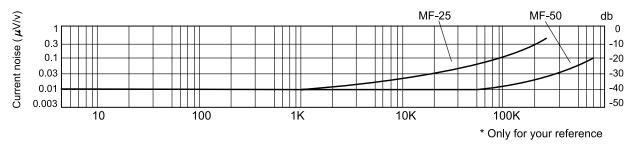
www.element14.com www.farnell.com www.newark.com



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



#### **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





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





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





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





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.







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.







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







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







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







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







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

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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







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.







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







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







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







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.







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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