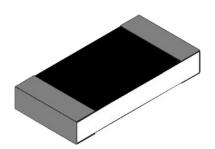
multicomp PRO

RoHS Compliant



1. Scope

This specification for approve relates to the Automotive Thick Film Chip Resistors. Used in automobile. The test items follow the test standard of AEC-Q200.

2. Type designation

The type designation shall be in the following form:

Туре	Power Rating	Resistance tolerance	Nominal Resistance
0603	0.1W (1/10W)	F	10ΚΩ

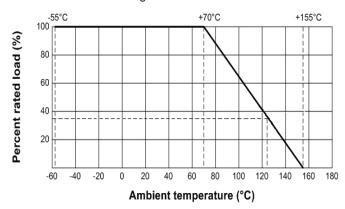
3. Ratings:

Туре	0402	0603	0805	1206	1210	2010	2512
Power Rating	1/16W	1/10W	1/8W	1/4W	1/2W	1/2W	1W
Jumper Rated Current	1A	1A	2A	2A	2A	2A	2A
Max. Jumper Rated Current	2A	2A	5A	10A	10A	10A	10A
Max. Working Voltage	50V	75V	150V	200V	200V	200V	200V
Max. Overload Voltage	100V	150V	300V	400V	500V	500V	500V
Dielectric Withstanding Voltage	100V	300V	500V	500V	5007	5007	5007
Temperature Range	-55°C to +155°C 70°C						
Ambient Temperature							

3.1 Power rating:

Resistors shall have a power rating based on continuous load operation at an ambient temperature from -55°C to 70°C. For temperature in excess of 70°C, the load shall be derate as shown in figure 1

Figure 1



Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

multicomp PRO

multicomp PRO

3.2 Voltage rating:

Resistors shall have a rated direct-current (DC) continuous working voltage or an approximate sine-wave root-mean-square (RMS) alternating-current (AC) continuous working voltage at commercial line frequency and waveform corresponding to the power rating , as determined from the following formula:

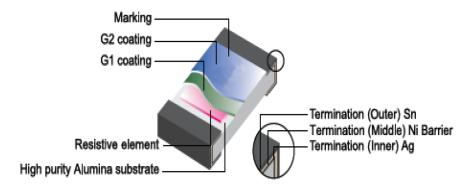
$$RCWV = \sqrt{P \times R}$$

Were: RCWV = Rated DC or RMS AC continuous working voltage at commercial-line frequency and waveform (volt)

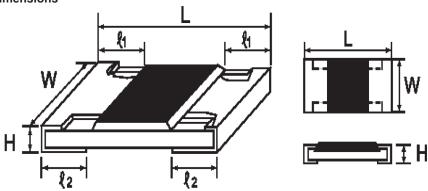
P = Power Rating (watt)

R = Nominal Resistance (ohm)

4. Construction:



5. Power rating and dimensions



Dimension

Type	Dimension (mm)								
Туре	L	W	Н	£ 1	ℓ2				
0402	1 ±0.1	0.5 ±0.05	0.35 ±0.05	0.2 ±0.1	0.25 ±0.1				
0603	1.6 ±0.1	0.8 +0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2				
0805	2 ±0.15	1.25 +0.15 -0.1		0.4 ±0.2	0.4 ±0.2				
1206	3.1 ±0.15	1.55 +0.15 -0.1		0.45 ±0.2	0.45 ±0.2				
1210	3.1 ±0.1	2.6 ±0.2	0.55 ±0.1	0.5 ±0.25	0.5 ±0.2				
2010	5 ±0.1	2.5 ±0.2		0.6 ±0.25	0.5 ±0.2				
2512	6.35 ±0.1	3.2 ±0.2		0.6 ±0.25	0.5 ±0.2				



multicomp PRO

Power Rating:

Туре	Power Rating	Tolerance	Resistance Range	Standard Series	
71.	at 70	Jumper	< 50mΩ		
0402	1/16W				
0603	1/10W			E-96	
0805	1/8W				
1206	1/4W	±1%	1Ω to 1MΩ	L 30	
1210	1/2W				
2010	3/4W				
2512	1W				

6. Marking:

6.1 Resistors

A. Chip Resistors type 0402 No marking

B. Standard E-96 series values(±1% tolerance) of 0603 size. Due the small size of the resistor's body, 3 digits marking will be used to indicate the accurate resistance value by using the following multiplier & resistance code

Marking for 0603 E-96 series, the resistance value that no have multiplier code indicate marking follow this:

The first two digits are significant figures of resistance and the third one denoted number of zeros and under line the marking letters.

Ex.

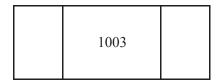


1.2ΚΩ

C. Marking for E-96 series in 0805, 1206, 1210, 2010, 2512 size: 4 Digits

*The first 3 digits are significant figures of resistance and the 4th digit denotes number of zeros.

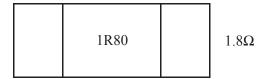
Ex.



100KΩ

*For ohmic values below 100 Ω, letter"R" is for decimal point.

Ex.







*The first 2 digits are significant figures of resistance and the 3rd digit denotes number of zeros.



*For ohmic values below 10 Ω, letter"R" is for decimal point.

Ex.		R68		0.68Ω
-----	--	-----	--	-------

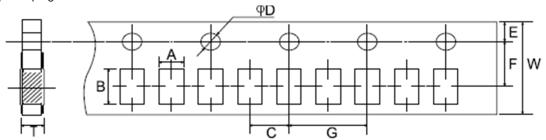
7. Performance specification:

Characteristics	Limits	Test Methods
Load life	±1%: ±(1% +0.1Ω)Max.	125°C, 35% power, at RCWV or Max.Working Voltage whichever less,1,000 hours(1.5 hours "ON", 0.5hours "OFF"), Measurement at 24 ±2 hours after test conclusion. (MIL-STD-202 Method 108)
Temperature Coefficient	1Ω ≤ R ≤ 10Ω : ±200PPM/°C ≥ 10Ω : ±100PPM/°C	Measure between -55°C to +125°C
Short time overload	±1%: ±(1%+0.1Ω)Max.	2.5x Rated voltage or Max. Overload Voltage whichever is lower for 5 seconds, then check the resistance.
Terminal Bending	±(1% +0.05Ω)Max	Bending Distance 3mm, Duration: 60s ±5s, then check the resistance.
Solderability	95% coverage Min.	245 ±3°C; 2s to 3s
Soldering heat	±(1% +0.05Ω) Max	260 ±5°C; 10±1s
Biased Humidity	1%: ±(1% +0.05Ω) Max.	10% rated power, 85°C/85%RH, 1000Hr, Measurement at 24 hours after test conclusion. (MIL-STD-202 Method 103)
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown	Resistor shall be clamped in the trough of 90° metallic V-block and shall be tested at AC potential respectively specified in the given list of each product type for 60s to 70s.
Temperature cycling	1%: ±(0.5% +0.1Ω) Max.	-55 ±3°C 30min ~normal temperature 10min-15min~155 ±2°C 30min~normal temperature 10min-15min 100 cycles, Measurement at 24 hours after test conclusion. (JESD22 Method JA-104)
ESD	±(1% +0.05Ω) Max	With the electrometer in direct contact with the discharge tip, verify the voltage setting at levels of ±500V,±1KV, ±2KV, ±4KV, ±8KV, The electrometer reading shall be within ±10% for voltages from 500V to ≤800V. (AEC-Q200-002)
Sulfuration test	1%: ±(1% +0.05Ω) Max.	H2S 3 to 5PPM 50°C ±2°C 91% to 93% RH 1000H

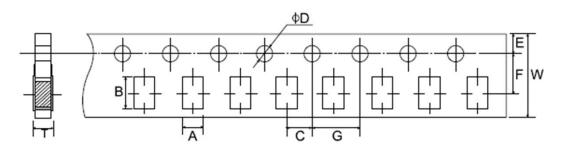
multicomp PRO

8. Packing specification

- * Taping Dimension (mm)
- a. Paper Taping

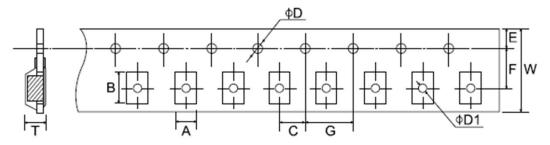


Type	A ±0.2	B ±0.2	C ±0.05	ØD+0.1- 0	E ±0.1	F ±0.05	G ±0.1	W ±0.2	T ±0.1
0402	0.65	1.15	2	1.5	1.75	3.5	4	8	0.42 ±0.05



Type	A ±0.2	B ±0.2	C ±0.05	ØD+0.1- 0	E ±0.1	F ±0.05	G ±0.1	W ±0.2	T ±0.1
0603	1.1	1.9							0.67
0805	1.65	2.4	,	1.5	1.75	3.5	4		0.81
1206	2	3.6		1.5	1.75	3.5	4	0	0.61
1210	2.8	3.5							0.75

b.) Embossed Taping

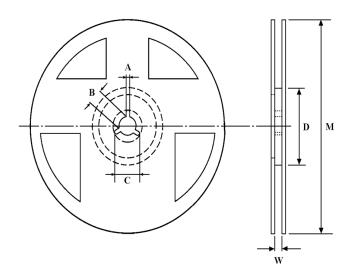


	Туре	A ±0.2	B ±0.2	C ±0.05	ØD+0.1- 0	ØD ₁ +0.1- 0	E ±0.1	F ±0.05	G ±0.1	W ±0.2	T ±0.1
	2010	2.9	5.6	0	1 5	1 5	1.75	E	4	10	1
Γ	2512	3.5	6.7	2	1.5	1.5	1.75	5.5	4	12	I





^{*} Reel Dimension (mm)



Туре	Taping	Qty/Reel	A ±0.5	B ±0.5	C ±0.5	D ±1	M ±2	W ±1
0402		10,000pcs						
0603								
0805	Paper	F 000maa						10
1206		5,000pcs	2	13	21	60	178	
1210								
2010	Embassed	4.000000						13.8
2512	Embossed	4,000pcs						13.0

Environment Related Substance

This product complies to EU RoHS directive, EU PAHs directive, EU PFOS directive and Halogen free.

Ozone layer depleting substances.

Ozone depleting substances are not used in our manufacturing process of this product.

This product is not manufactured using Chloro fluorocarbons (CFCs), Hydrochlorofluorocarbons (HCFCs),

Hydrobromofluorocarbons (HBFCs) or other ozone depleting substances in any phase of the manufacturing process.

Storage Condition (MSL1)

The performance of these products, including the solderability, is guaranteed for a year from the date of arrival at your company, provided that they remain packed as they were when delivered and stored at a temperature of 25° C $\pm 10^{\circ}$ C and a relative humidity of 60° RH $\pm 10^{\circ}$ RH, chemical and dust free atmosphere

Even within the above guarantee periods, do not store these products in the following conditions.

Otherwise, their electrical performance and/or solderability may be deteriorated, and the packaging materials (e.g. taping materials) may be deformed or deteriorated, resulting in mounting failures.

- 1. In salty air or in air with a high concentration of corrosive gas, such as Cl₂, H₂S, NH₃, SO₂, or NO₂
- 2. In direct sunlight



multicomp PRO

Part Number Table

Description	Part Number
Chip Resistor, Thick Film, 1/2W, 3R3, ±1%, 1210	MP003369
Chip Resistor, Thick Film, 1/2W, 10R, ±1%, 1210	MP003370
Chip Resistor, Thick Film, 1/2W, 12R, ±1%, 1210	MP003371
Chip Resistor, Thick Film, 1/2W, 15R, ±1%, 1210	MP003372
Chip Resistor, Thick Film, 1/2W, 18R, ±1%, 1210	MP003373
Chip Resistor, Thick Film, 1/2W, 22R, ±1%, 1210	MP003374
Chip Resistor, Thick Film, 1/2W, 27R, ±1%, 1210	MP003375
Chip Resistor, Thick Film, 1/2W, 33R, ±1%, 1210	MP003376
Chip Resistor, Thick Film, 1/2W, 39R, ±1%, 1210	MP003377
Chip Resistor, Thick Film, 1/2W, 47R, ±1%, 1210	MP003378
Chip Resistor, Thick Film, 1/2W, 56R, ±1%, 1210	MP003379
Chip Resistor, Thick Film, 1/2W, 68R, ±1%, 1210	MP003380
Chip Resistor, Thick Film, 1/2W, 82R, ±1%, 1210	MP003381
Chip Resistor, Thick Film, 1/2W, 100R, ±1%, 1210	MP003382
Chip Resistor, Thick Film, 1/2W, 110R, ±1%, 1210	MP003383
Chip Resistor, Thick Film, 1/2W, 120R, ±1%, 1210	MP003384
Chip Resistor, Thick Film, 1/2W, 150R, ±1%, 1210	MP003385
Chip Resistor, Thick Film, 1/2W, 180R, ±1%, 1210	MP003386
Chip Resistor, Thick Film, 1/2W, 220R, ±1%, 1210	MP003387
Chip Resistor, Thick Film, 1/2W, 270R, ±1%, 1210	MP003388
Chip Resistor, Thick Film, 1/2W, 330R, ±1%, 1210	MP003389
Chip Resistor, Thick Film, 1/2W, 390R, ±1%, 1210	MP003390
Chip Resistor, Thick Film, 1/2W, 470R, ±1%, 1210	MP003391
Chip Resistor, Thick Film, 1/2W, 560R, ±1%, 1210	MP003392
Chip Resistor, Thick Film, 1/2W, 680R, ±1%, 1210	MP003393
Chip Resistor, Thick Film, 1/2W, 820R, ±1%, 1210	MP003394
Chip Resistor, Thick Film, 1/2W, 1k, ±1%, 1210	MP003395
Chip Resistor, Thick Film, 1/2W, 1k2, ±1%, 1210	MP003396
Chip Resistor, Thick Film, 1/2W, 1k5, ±1%, 1210	MP003397
Chip Resistor, Thick Film, 1/2W, 1k8, ±1%, 1210	MP003398
Chip Resistor, Thick Film, 1/2W, 2k2, ±1%, 1210	MP003399
Chip Resistor, Thick Film, 1/2W, 2k7, ±1%, 1210	MP003400
Chip Resistor, Thick Film, 1/2W, 3k3, ±1%, 1210	MP003401
Chip Resistor, Thick Film, 1/2W, 3k9, ±1%, 1210	MP003402
Chip Resistor, Thick Film, 1/2W, 4k7, ±1%, 1210	MP003403
Chip Resistor, Thick Film, 1/2W, 5k6, ±1%, 1210	MP003404
Chip Resistor, Thick Film, 1/2W, 6k8, ±1%, 1210	MP003405
Chip Resistor, Thick Film, 1/2W, 8k2, ±1%, 1210	MP003406
Chip Resistor, Thick Film, 1/2W, 10k, ±1%, 1210	MP003407
Chip Resistor, Thick Film, 1/2W, 12k, ±1%, 1210	MP003408

Description	Part Number
Chip Resistor, Thick Film, 1/2W, 15k, ±1%, 1210	MP003409
Chip Resistor, Thick Film, 1/2W, 18k, ±1%, 1210	MP003410
Chip Resistor, Thick Film, 1/2W, 10k, ±1%, 1210	MP003411
<u> </u>	
Chip Resistor, Thick Film, 1/2W, 27k, ±1%, 1210	MP003412
Chip Resistor, Thick Film, 1/2W, 33k, ±1%, 1210	MP003413
Chip Resistor, Thick Film, 1/2W, 39k, ±1%, 1210	MP003414
Chip Resistor, Thick Film, 1/2W, 47k, ±1%, 1210	MP003415
Chip Resistor, Thick Film, 1/2W, 56k, ±1%, 1210	MP003416
Chip Resistor, Thick Film, 1/2W, 68k, ±1%, 1210	MP003417
Chip Resistor, Thick Film, 1/2W, 82k, ±1%, 1210	MP003418
Chip Resistor, Thick Film, 1/2W, 100k, ±1%, 1210	MP003419
Chip Resistor, Thick Film, 1/2W, 120k, ±1%, 1210	MP003420
Chip Resistor, Thick Film, 1/2W, 150k, ±1%, 1210	MP003421
Chip Resistor, Thick Film, 1/2W, 180k, ±1%, 1210	MP003422
Chip Resistor, Thick Film, 1/2W, 220k, ±1%, 1210	MP003423
Chip Resistor, Thick Film, 1/2W, 270k, ±1%, 1210	MP003424
Chip Resistor, Thick Film, 1/2W, 330k, ±1%, 1210	MP003425
Chip Resistor, Thick Film, 1/2W, 390k, ±1%, 1210	MP003426
Chip Resistor, Thick Film, 1/2W, 470k, ±1%, 1210	MP003427
Chip Resistor, Thick Film, 1/2W, 560k, ±1%, 1210	MP003428
Chip Resistor, Thick Film, 1/2W, 680k, ±1%, 1210	MP003429
Chip Resistor, Thick Film, 1/2W, 820k, ±1%, 1210	MP003430
Chip Resistor, Thick Film, 1/2W, 1M, ±1%, 1210	MP003431
Chip Resistor, Thick Film, 1/16W, 0R, ±1%, 0402	MP003432
Chip Resistor, Thick Film, 1/16W, 1R, ±1%, 0402	MP003433
Chip Resistor, Thick Film, 1/16W, 2R2, ±1%, 0402	MP003434
Chip Resistor, Thick Film, 1/16W, 4R7, ±1%, 0402	MP003435
Chip Resistor, Thick Film, 1/16W, 10R, ±1%, 0402	MP003436
Chip Resistor, Thick Film, 1/16W, 12R, ±1%, 0402	MP003437
Chip Resistor, Thick Film, 1/16W, 15R, ±1%, 0402	MP003438
Chip Resistor, Thick Film, 1/16W, 18R, ±1%, 0402	MP003439
Chip Resistor, Thick Film, 1/16W, 22R, ±1%, 0402	MP003440
Chip Resistor, Thick Film, 1/16W, 27R, ±1%, 0402	MP003441
Chip Resistor, Thick Film, 1/16W, 33R, ±1%, 0402	MP003442
Chip Resistor, Thick Film, 1/16W, 39R, ±1%, 0402	MP003443
Chip Resistor, Thick Film, 1/16W, 47R, ±1%, 0402	MP003444
Chip Resistor, Thick Film, 1/16W, 47R, ±1%, 0402	MP003444
Chip Resistor, Thick Film, 1/16W, 56R, ±1%, 0402	
Chip Resistor, Thick Film, 1/16W, 66R, ±1%, 0402 Chip Resistor, Thick Film, 1/16W, 82R, ±1%, 0402	MP003446
	MP003447
Chip Resistor, Thick Film, 1/16W, 100R, ±1%, 0402	MP003448



multicomp PRO

Description	Part Number
·	
Chip Resistor, Thick Film, 1/16W, 120R, ±1%, 0402	MP003449
Chip Resistor, Thick Film, 1/16W, 130R, ±1%, 0402	MP003450
Chip Resistor, Thick Film, 1/16W, 150R, ±1%, 0402	MP003451
Chip Resistor, Thick Film, 1/16W, 160R, ±1%, 0402	MP003452
Chip Resistor, Thick Film, 1/16W, 180R, ±1%, 0402	MP003453
Chip Resistor, Thick Film, 1/16W, 200R, ±1%, 0402	MP003454
Chip Resistor, Thick Film, 1/16W, 220R, ±1%, 0402	MP003455
Chip Resistor, Thick Film, 1/16W, 270R, ±1%, 0402	MP003456
Chip Resistor, Thick Film, 1/16W, 330R, ±1%, 0402	MP003457
Chip Resistor, Thick Film, 1/16W, 390R, ±1%, 0402	MP003458
Chip Resistor, Thick Film, 1/16W, 470R, ±1%, 0402	MP003459
Chip Resistor, Thick Film, 1/16W, 510R, ±1%, 0402	MP003460
Chip Resistor, Thick Film, 1/16W, 560R, ±1%, 0402	MP003461
Chip Resistor, Thick Film, 1/16W, 620R, ±1%, 0402	MP003462
Chip Resistor, Thick Film, 1/16W, 680R, ±1%, 0402	MP003463
Chip Resistor, Thick Film, 1/16W, 820R, ±1%, 0402	MP003464
Chip Resistor, Thick Film, 1/16W, 1k, ±1%, 0402	MP003465
Chip Resistor, Thick Film, 1/16W, 1k2, ±1%, 0402	MP003466
Chip Resistor, Thick Film, 1/16W, 1k5, ±1%, 0402	MP003467
Chip Resistor, Thick Film, 1/16W, 1k8, ±1%, 0402	MP003468
Chip Resistor, Thick Film, 1/16W, 2k, ±1%, 0402	MP003469
Chip Resistor, Thick Film, 1/16W, 2k2, ±1%, 0402	MP003470
Chip Resistor, Thick Film, 1/16W, 2k7, ±1%, 0402	MP003471
Chip Resistor, Thick Film, 1/16W, 3k, ±1%, 0402	MP003472
Chip Resistor, Thick Film, 1/16W, 3k3, ±1%, 0402	MP003473
Chip Resistor, Thick Film, 1/16W, 3k6, ±1%, 0402	MP003474
Chip Resistor, Thick Film, 1/16W, 3k9, ±1%, 0402	MP003475
Chip Resistor, Thick Film, 1/16W, 4k7, ±1%, 0402	MP003476
Chip Resistor, Thick Film, 1/16W, 5k1, ±1%, 0402	MP003477
Chip Resistor, Thick Film, 1/16W, 5k6, ±1%, 0402	MP003478
Chip Resistor, Thick Film, 1/16W, 6k8, ±1%, 0402	MP003479
Chip Resistor, Thick Film, 1/16W, 8k2, ±1%, 0402	MP003480
Chip Resistor, Thick Film, 1/16W, 10k, ±1%, 0402	MP003481
Chip Resistor, Thick Film, 1/16W, 12k, ±1%, 0402	MP003482
Chip Resistor, Thick Film, 1/16W, 15k, ±1%, 0402	MP003483
Chip Resistor, Thick Film, 1/16W, 18k, ±1%, 0402	MP003484
Chip Resistor, Thick Film, 1/16W, 20k, ±1%, 0402	MP003485
Chip Resistor, Thick Film, 1/16W, 22k, ±1%, 0402	MP003486
Chip Resistor, Thick Film, 1/16W, 27k, ±1%, 0402	MP003487
Chip Resistor, Thick Film, 1/16W, 30k, ±1%, 0402	MP003488
Chip Resistor, Thick Film, 1/16W, 33k, ±1%, 0402	MP003489
Chip Resistor, Thick Film, 1/16W, 36k, ±1%, 0402	MP003490

Description	Part Number
Chip Resistor, Thick Film, 1/16W, 39k, ±1%, 0402	MP003491
Chip Resistor, Thick Film, 1/16W, 47k, ±1%, 0402	MP003492
Chip Resistor, Thick Film, 1/16W, 51k, ±1%, 0402	MP003493
Chip Resistor, Thick Film, 1/16W, 56k, ±1%, 0402	MP003494
Chip Resistor, Thick Film, 1/16W, 68k, ±1%, 0402	MP003495
Chip Resistor, Thick Film, 1/16W, 82k, ±1%, 0402	MP003496
Chip Resistor, Thick Film, 1/16W, 91k, ±1%, 0402	MP003497
Chip Resistor, Thick Film, 1/16W, 100k, ±1%, 0402	MP003498
Chip Resistor, Thick Film, 1/16W, 120k, ±1%, 0402	MP003499
Chip Resistor, Thick Film, 1/16W, 150k, ±1%, 0402	MP003500
Chip Resistor, Thick Film, 1/16W, 180k, ±1%, 0402	MP003501
Chip Resistor, Thick Film, 1/16W, 220k, ±1%, 0402	MP003502
Chip Resistor, Thick Film, 1/16W, 270k, ±1%, 0402	MP003503
Chip Resistor, Thick Film, 1/16W, 300k, ±1%, 0402	MP003504
Chip Resistor, Thick Film, 1/16W, 330k, ±1%, 0402	MP003505
Chip Resistor, Thick Film, 1/16W, 390k, ±1%, 0402	MP003506
Chip Resistor, Thick Film, 1/16W, 470k, ±1%, 0402	MP003507
Chip Resistor, Thick Film, 1/16W, 560k, ±1%, 0402	MP003508
Chip Resistor, Thick Film, 1/16W, 680k, ±1%, 0402	MP003509
Chip Resistor, Thick Film, 1/16W, 820k, ±1%, 0402	MP003510
Chip Resistor, Thick Film, 1/16W, 1M, ±1%, 0402	MP003511
Chip Resistor, Thick Film, 1/10W, 0R, ±1%, 0603	MP003512
Chip Resistor, Thick Film, 1/10W, 1R, ±1%, 0603	MP003513
Chip Resistor, Thick Film, 1/10W, 2R2, ±1%, 0603	MP003514
Chip Resistor, Thick Film, 1/10W, 4R7, ±1%, 0603	MP003515
Chip Resistor, Thick Film, 1/10W, 10R, ±1%, 0603	MP003516
Chip Resistor, Thick Film, 1/10W, 12R, ±1%, 0603	MP003517
Chip Resistor, Thick Film, 1/10W, 15R, ±1%, 0603	MP003518
Chip Resistor, Thick Film, 1/10W, 18R, ±1%, 0603	MP003519
Chip Resistor, Thick Film, 1/10W, 22R, ±1%, 0603	MP003520
Chip Resistor, Thick Film, 1/10W, 27R, ±1%, 0603	MP003521
Chip Resistor, Thick Film, 1/10W, 33R, ±1%, 0603	MP003522
Chip Resistor, Thick Film, 1/10W, 39R, ±1%, 0603	MP003523
Chip Resistor, Thick Film, 1/10W, 47R, ±1%, 0603	MP003524
Chip Resistor, Thick Film, 1/10W, 56R, ±1%, 0603	MP003525
Chip Resistor, Thick Film, 1/10W, 68R, ±1%, 0603	MP003526
Chip Resistor, Thick Film, 1/10W, 82R, ±1%, 0603	MP003527
Chip Resistor, Thick Film, 1/10W, 100R, ±1%, 0603	MP003528
Chip Resistor, Thick Film, 1/10W, 120R, ±1%, 0603	MP003529
Chip Resistor, Thick Film, 1/10W, 130R, ±1%, 0603	MP003530
Chip Resistor, Thick Film, 1/10W, 150R, ±1%, 0603	MP003531
Chip Resistor, Thick Film, 1/10W, 160R, ±1%, 0603	MP003532





Description	Part Number
Chip Resistor, Thick Film, 1/10W, 180R, ±1%, 0603	MP003533
Chip Resistor, Thick Film, 1/10W, 200R, ±1%, 0603	MP003534
Chip Resistor, Thick Film, 1/10W, 220R, ±1%, 0603	MP003535
Chip Resistor, Thick Film, 1/10W, 270R, ±1%, 0603	MP003536
Chip Resistor, Thick Film, 1/10W, 330R, ±1%, 0603	MP003537
Chip Resistor, Thick Film, 1/10W, 390R, ±1%, 0603	MP003538
Chip Resistor, Thick Film, 1/10W, 470R, ±1%, 0603	MP003539
Chip Resistor, Thick Film, 1/10W, 510R, ±1%, 0603	MP003540
Chip Resistor, Thick Film, 1/10W, 560R, ±1%, 0603	MP003541
Chip Resistor, Thick Film, 1/10W, 620R, ±1%, 0603	MP003542
Chip Resistor, Thick Film, 1/10W, 680R, ±1%, 0603	MP003543
Chip Resistor, Thick Film, 1/10W, 820R, ±1%, 0603	MP003544
Chip Resistor, Thick Film, 1/10W, 1k, ±1%, 0603	MP003545
Chip Resistor, Thick Film, 1/10W, 1k2, ±1%, 0603	MP003546
Chip Resistor, Thick Film, 1/10W, 1k5, ±1%, 0603	MP003547
Chip Resistor, Thick Film, 1/10W, 1k8, ±1%, 0603	MP003548
Chip Resistor, Thick Film, 1/10W, 2k, ±1%, 0603	MP003549
Chip Resistor, Thick Film, 1/10W, 2k2, ±1%, 0603	MP003550
Chip Resistor, Thick Film, 1/10W, 2k7, ±1%, 0603	MP003551
Chip Resistor, Thick Film, 1/10W, 3k, ±1%, 0603	MP003552
Chip Resistor, Thick Film, 1/10W, 3k3, ±1%, 0603	MP003553
Chip Resistor, Thick Film, 1/10W, 3k6, ±1%, 0603	MP003554
Chip Resistor, Thick Film, 1/10W, 3k9, ±1%, 0603	MP003555
Chip Resistor, Thick Film, 1/10W, 4k7, ±1%, 0603	MP003556
Chip Resistor, Thick Film, 1/10W, 5k1, ±1%, 0603	MP003557
Chip Resistor, Thick Film, 1/10W, 5k6, ±1%, 0603	MP003558
Chip Resistor, Thick Film, 1/10W, 6k8, ±1%, 0603	MP003559
Chip Resistor, Thick Film, 1/10W, 8k2, ±1%, 0603	MP003560
Chip Resistor, Thick Film, 1/10W, 10k, ±1%, 0603	MP003561
Chip Resistor, Thick Film, 1/10W, 12k, ±1%, 0603	MP003562
Chip Resistor, Thick Film, 1/10W, 15k, ±1%, 0603	MP003563
Chip Resistor, Thick Film, 1/10W, 18k, ±1%, 0603	MP003564
Chip Resistor, Thick Film, 1/10W, 20k, ±1%, 0603	MP003565
Chip Resistor, Thick Film, 1/10W, 22k, ±1%, 0603	MP003566
Chip Resistor, Thick Film, 1/10W, 27k, ±1%, 0603	MP003567
Chip Resistor, Thick Film, 1/10W, 30k, ±1%, 0603	MP003568
Chip Resistor, Thick Film, 1/10W, 33k, ±1%, 0603	MP003569
Chip Resistor, Thick Film, 1/10W, 36k, ±1%, 0603	MP003570
Chip Resistor, Thick Film, 1/10W, 39k, ±1%, 0603	MP003571
Chip Resistor, Thick Film, 1/10W, 47k, ±1%, 0603	MP003572
Chip Resistor, Thick Film, 1/10W, 51k, ±1%, 0603	MP003573

Description	Part Number
Chip Resistor, Thick Film, 1/10W, 56k, ±1%, 0603	MP003574
Chip Resistor, Thick Film, 1/10W, 68k, ±1%, 0603	MP003575
Chip Resistor, Thick Film, 1/10W, 82k, ±1%, 0603	MP003576
Chip Resistor, Thick Film, 1/10W, 91k, ±1%, 0603	MP003577
Chip Resistor, Thick Film, 1/10W, 100k, ±1%, 0603	MP003578
Chip Resistor, Thick Film, 1/10W, 120k, ±1%, 0603	MP003579
Chip Resistor, Thick Film, 1/10W, 150k, ±1%, 0603	MP003580
Chip Resistor, Thick Film, 1/10W, 180k, ±1%, 0603	MP003581
Chip Resistor, Thick Film, 1/10W, 220k, ±1%, 0603	MP003582
Chip Resistor, Thick Film, 1/10W, 270k, ±1%, 0603	MP003583
Chip Resistor, Thick Film, 1/10W, 300k, ±1%, 0603	MP003584
Chip Resistor, Thick Film, 1/10W, 330k, ±1%, 0603	MP003585
Chip Resistor, Thick Film, 1/10W, 390k, ±1%, 0603	MP003586
Chip Resistor, Thick Film, 1/10W, 470k, ±1%, 0603	MP003587
Chip Resistor, Thick Film, 1/10W, 560k, ±1%, 0603	MP003588
Chip Resistor, Thick Film, 1/10W, 680k, ±1%, 0603	MP003589
Chip Resistor, Thick Film, 1/10W, 820k, ±1%, 0603	MP003590
Chip Resistor, Thick Film, 1/10W, 1M, ±1%, 0603	MP003591
Chip Resistor, Thick Film, 1/8W, 0R, ±1%, 0805	MP003592
Chip Resistor, Thick Film, 1/8W, 1R, ±1%, 0805	MP003593
Chip Resistor, Thick Film, 1/8W, 2R2, ±1%, 0805	MP003594
Chip Resistor, Thick Film, 1/8W, 4R7, ±1%, 0805	MP003595
Chip Resistor, Thick Film, 1/8W, 10R, ±1%, 0805	MP003596
Chip Resistor, Thick Film, 1/8W, 12R, ±1%, 0805	MP003597
Chip Resistor, Thick Film, 1/8W, 15R, ±1%, 0805	MP003598
Chip Resistor, Thick Film, 1/8W, 18R, ±1%, 0805	MP003599
Chip Resistor, Thick Film, 1/8W, 22R, ±1%, 0805	MP003600
Chip Resistor, Thick Film, 1/8W, 27R, ±1%, 0805	MP003601
Chip Resistor, Thick Film, 1/8W, 33R, ±1%, 0805	MP003602
Chip Resistor, Thick Film, 1/8W, 39R, ±1%, 0805	MP003603
Chip Resistor, Thick Film, 1/8W, 47R, ±1%, 0805	MP003604
Chip Resistor, Thick Film, 1/8W, 56R, ±1%, 0805	MP003605
Chip Resistor, Thick Film, 1/8W, 68R, ±1%, 0805	MP003606
Chip Resistor, Thick Film, 1/8W, 82R, ±1%, 0805	MP003607
Chip Resistor, Thick Film, 1/8W, 100R, ±1%, 0805	MP003608
Chip Resistor, Thick Film, 1/8W, 120R, ±1%, 0805	MP003609
Chip Resistor, Thick Film, 1/8W, 130R, ±1%, 0805	MP003610
Chip Resistor, Thick Film, 1/8W, 150R, ±1%, 0805	MP003611
Chip Resistor, Thick Film, 1/8W, 160R, ±1%, 0805	MP003612
Chip Resistor, Thick Film, 1/8W, 180R, ±1%, 0805	MP003613
Chip Resistor, Thick Film, 1/8W, 200R, ±1%, 0805	MP003614



multicomp PRO

Description	Part Number
Chip Resistor, Thick Film, 1/8W, 220R, ±1%, 0805	MP003615
Chip Resistor, Thick Film, 1/8W, 270R, ±1%, 0805	MP003616
Chip Resistor, Thick Film, 1/8W, 330R, ±1%, 0805	MP003617
Chip Resistor, Thick Film, 1/8W, 390R, ±1%, 0805	MP003618
Chip Resistor, Thick Film, 1/8W, 470R, ±1%, 0805	MP003619
Chip Resistor, Thick Film, 1/8W, 510R, ±1%, 0805	MP003620
Chip Resistor, Thick Film, 1/8W, 560R, ±1%, 0805	MP003621
Chip Resistor, Thick Film, 1/8W, 620R, ±1%, 0805	MP003622
Chip Resistor, Thick Film, 1/8W, 680R, ±1%, 0805	MP003623
Chip Resistor, Thick Film, 1/8W, 820R, ±1%, 0805	MP003624
Chip Resistor, Thick Film, 1/8W, 1k, ±1%, 0805	MP003625
Chip Resistor, Thick Film, 1/8W, 1k2, ±1%, 0805	MP003626
Chip Resistor, Thick Film, 1/8W, 1k5, ±1%, 0805	MP003627
Chip Resistor, Thick Film, 1/8W, 1k8, ±1%, 0805	MP003628
Chip Resistor, Thick Film, 1/8W, 2k, ±1%, 0805	MP003629
Chip Resistor, Thick Film, 1/8W, 2k2, ±1%, 0805	MP003630
Chip Resistor, Thick Film, 1/8W, 2k7, ±1%, 0805	MP003631
Chip Resistor, Thick Film, 1/8W, 3k, ±1%, 0805	MP003632
Chip Resistor, Thick Film, 1/8W, 3k3, ±1%, 0805	MP003633
Chip Resistor, Thick Film, 1/8W, 3k6, ±1%, 0805	MP003634
Chip Resistor, Thick Film, 1/8W, 3k9, ±1%, 0805	MP003635
Chip Resistor, Thick Film, 1/8W, 4k7, ±1%, 0805	MP003636
Chip Resistor, Thick Film, 1/8W, 5k1, ±1%, 0805	MP003637
Chip Resistor, Thick Film, 1/8W, 5k6, ±1%, 0805	MP003638
Chip Resistor, Thick Film, 1/8W, 6k8, ±1%, 0805	MP003639
Chip Resistor, Thick Film, 1/8W, 8k2, ±1%, 0805	MP003640
Chip Resistor, Thick Film, 1/8W, 10k, ±1%, 0805	MP003641
Chip Resistor, Thick Film, 1/8W, 12k, ±1%, 0805	MP003642
Chip Resistor, Thick Film, 1/8W, 15k, ±1%, 0805	MP003643
Chip Resistor, Thick Film, 1/8W, 18k, ±1%, 0805	MP003644
Chip Resistor, Thick Film, 1/8W, 20k, ±1%, 0805	MP003645
Chip Resistor, Thick Film, 1/8W, 22k, ±1%, 0805	MP003646
Chip Resistor, Thick Film, 1/8W, 27k, ±1%, 0805	MP003647
Chip Resistor, Thick Film, 1/8W, 30k, ±1%, 0805	MP003648
Chip Resistor, Thick Film, 1/8W, 33k, ±1%, 0805	MP003649
Chip Resistor, Thick Film, 1/8W, 36k, ±1%, 0805	MP003650
Chip Resistor, Thick Film, 1/8W, 39k, ±1%, 0805	MP003651
Chip Resistor, Thick Film, 1/8W, 47k, ±1%, 0805	MP003652
Chip Resistor, Thick Film, 1/8W, 51k, ±1%, 0805	MP003653
Chip Resistor, Thick Film, 1/8W, 56k, ±1%, 0805	MP003654
Chip Resistor, Thick Film, 1/8W, 68k, ±1%, 0805	MP003655
Chip Resistor, Thick Film, 1/8W, 82k, ±1%, 0805	MP003656

Description	Part Number
Chip Resistor, Thick Film, 1/8W, 91k, ±1%, 0805	MP003657
Chip Resistor, Thick Film, 1/8W, 100k, ±1%, 0805	MP003658
Chip Resistor, Thick Film, 1/8W, 120k, ±1%, 0805	MP003659
Chip Resistor, Thick Film, 1/8W, 150k, ±1%, 0805	MP003660
Chip Resistor, Thick Film, 1/8W, 180k, ±1%, 0805	MP003661
Chip Resistor, Thick Film, 1/8W, 220k, ±1%, 0805	MP003662
Chip Resistor, Thick Film, 1/8W, 270k, ±1%, 0805	MP003663
Chip Resistor, Thick Film, 1/8W, 300k, ±1%, 0805	MP003664
Chip Resistor, Thick Film, 1/8W, 330k, ±1%, 0805	MP003665
Chip Resistor, Thick Film, 1/8W, 390k, ±1%, 0805	MP003666
Chip Resistor, Thick Film, 1/8W, 470k, ±1%, 0805	MP003667
Chip Resistor, Thick Film, 1/8W, 560k, ±1%, 0805	MP003668
Chip Resistor, Thick Film, 1/8W, 680k, ±1%, 0805	MP003669
Chip Resistor, Thick Film, 1/8W, 820k, ±1%, 0805	MP003670
Chip Resistor, Thick Film, 1/8W, 1M, ±1%, 0805	MP003671
Chip Resistor, Thick Film, 1/4W, 0R, ±1%, 1206	MP003672
Chip Resistor, Thick Film, 1/4W, 1R, ±1%, 1206	MP003673
Chip Resistor, Thick Film, 1/4W, 2R2, ±1%, 1206	MP003674
Chip Resistor, Thick Film, 1/4W, 3R, ±1%, 1206	MP003675
Chip Resistor, Thick Film, 1/4W, 3R3, ±1%, 1206	MP003676
Chip Resistor, Thick Film, 1/4W, 4R7, ±1%, 1206	MP003677
Chip Resistor, Thick Film, 1/4W, 9R1, ±1%, 1206	MP003678
Chip Resistor, Thick Film, 1/4W, 10R, ±1%, 1206	MP003679
Chip Resistor, Thick Film, 1/4W, 12R, ±1%, 1206	MP003680
Chip Resistor, Thick Film, 1/4W, 15R, ±1%, 1206	MP003681
Chip Resistor, Thick Film, 1/4W, 18R, ±1%, 1206	MP003682
Chip Resistor, Thick Film, 1/4W, 22R, ±1%, 1206	MP003683
Chip Resistor, Thick Film, 1/4W, 27R, ±1%, 1206	MP003684
Chip Resistor, Thick Film, 1/4W, 30R, ±1%, 1206	MP003685
Chip Resistor, Thick Film, 1/4W, 33R, ±1%, 1206	MP003686
Chip Resistor, Thick Film, 1/4W, 39R, ±1%, 1206	MP003687
Chip Resistor, Thick Film, 1/4W, 47R, ±1%, 1206	MP003688
Chip Resistor, Thick Film, 1/4W, 56R, ±1%, 1206	MP003689
Chip Resistor, Thick Film, 1/4W, 68R, ±1%, 1206	MP003690
Chip Resistor, Thick Film, 1/4W, 75R, ±1%, 1206	MP003691
Chip Resistor, Thick Film, 1/4W, 82R, ±1%, 1206	MP003692
Chip Resistor, Thick Film, 1/4W, 91R, ±1%, 1206	MP003693
Chip Resistor, Thick Film, 1/4W, 100R, ±1%, 1206	MP003694
Chip Resistor, Thick Film, 1/4W, 120R, ±1%, 1206	MP003695
Chip Resistor, Thick Film, 1/4W, 130R, ±1%, 1206	MP003696
Chip Resistor, Thick Film, 1/4W, 140R, ±1%, 1206	MP003697
Chip Resistor, Thick Film, 1/4W, 150R, ±1%, 1206	MP003698



multicomp PRO

Description	Part Number
Chip Resistor, Thick Film, 1/4W, 160R, ±1%, 1206	MP003699
Chip Resistor, Thick Film, 1/4W, 180R, ±1%, 1206	MP003700
Chip Resistor, Thick Film, 1/4W, 200R, ±1%, 1206	MP003701
Chip Resistor, Thick Film, 1/4W, 220R, ±1%, 1206	MP003702
Chip Resistor, Thick Film, 1/4W, 240R, ±1%, 1206	MP003703
Chip Resistor, Thick Film, 1/4W, 270R, ±1%, 1206	MP003704
Chip Resistor, Thick Film, 1/4W, 300R, ±1%, 1206	MP003705
Chip Resistor, Thick Film, 1/4W, 330R, ±1%, 1206	MP003706
Chip Resistor, Thick Film, 1/4W, 360R, ±1%, 1206	MP003707
Chip Resistor, Thick Film, 1/4W, 390R, ±1%, 1206	MP003708
Chip Resistor, Thick Film, 1/4W, 430R, ±1%, 1206	MP003709
Chip Resistor, Thick Film, 1/4W, 470R, ±1%, 1206	MP003710
Chip Resistor, Thick Film, 1/4W, 510R, ±1%, 1206	MP003711
Chip Resistor, Thick Film, 1/4W, 560R, ±1%, 1206	MP003712
Chip Resistor, Thick Film, 1/4W, 604R, ±1%, 1206	MP003713
Chip Resistor, Thick Film, 1/4W, 620R, ±1%, 1206	MP003714
Chip Resistor, Thick Film, 1/4W, 680R, ±1%, 1206	MP003715
Chip Resistor, Thick Film, 1/4W, 750R, ±1%, 1206	MP003716
Chip Resistor, Thick Film, 1/4W, 820R, ±1%, 1206	MP003717
Chip Resistor, Thick Film, 1/4W, 910R, ±1%, 1206	MP003718
Chip Resistor, Thick Film, 1/4W, 1k, ±1%, 1206	MP003719
Chip Resistor, Thick Film, 1/4W, 1k1, ±1%, 1206	MP003720
Chip Resistor, Thick Film, 1/4W, 1k2, ±1%, 1206	MP003721
Chip Resistor, Thick Film, 1/4W, 1k3, ±1%, 1206	MP003722
Chip Resistor, Thick Film, 1/4W, 1k5, ±1%, 1206	MP003723
Chip Resistor, Thick Film, 1/4W, 1k6, ±1%, 1206	MP003724
Chip Resistor, Thick Film, 1/4W, 1k8, ±1%, 1206	MP003725
Chip Resistor, Thick Film, 1/4W, 2k, ±1%, 1206	MP003726
Chip Resistor, Thick Film, 1/4W, 2k2, ±1%, 1206	MP003727
Chip Resistor, Thick Film, 1/4W, 2k4, ±1%, 1206	MP003728
Chip Resistor, Thick Film, 1/4W, 2k7, ±1%, 1206	MP003729
Chip Resistor, Thick Film, 1/4W, 3k, ±1%, 1206	MP003730
Chip Resistor, Thick Film, 1/4W, 3k3, ±1%, 1206	MP003731
Chip Resistor, Thick Film, 1/4W, 3k6, ±1%, 1206	MP003732
Chip Resistor, Thick Film, 1/4W, 3k9, ±1%, 1206	MP003733
Chip Resistor, Thick Film, 1/4W, 4k7, ±1%, 1206	MP003734
Chip Resistor, Thick Film, 1/4W, 5k6, ±1%, 1206	MP003735
Chip Resistor, Thick Film, 1/4W, 6k8, ±1%, 1206	MP003736
Chip Resistor, Thick Film, 1/4W, 7k5, ±1%, 1206	MP003737
Chip Resistor, Thick Film, 1/4W, 8k2, ±1%, 1206	MP003738
Chip Resistor, Thick Film, 1/4W, 10k, ±1%, 1206	MP003739
Chip Resistor, Thick Film, 1/4W, 11k, ±1%, 1206	MP003740

Description	Part Number
Chip Resistor, Thick Film, 1/4W, 12k, ±1%, 1206	MP003741
Chip Resistor, Thick Film, 1/4W, 13k, ±1%, 1206	MP003742
Chip Resistor, Thick Film, 1/4W, 15k, ±1%, 1206	MP003743
Chip Resistor, Thick Film, 1/4W, 18k, ±1%, 1206	MP003744
Chip Resistor, Thick Film, 1/4W, 22k, ±1%, 1206	MP003745
Chip Resistor, Thick Film, 1/4W, 24k, ±1%, 1206	MP003746
Chip Resistor, Thick Film, 1/4W, 27k, ±1%, 1206	MP003747
Chip Resistor, Thick Film, 1/4W, 33k, ±1%, 1206	MP003748
Chip Resistor, Thick Film, 1/4W, 36k, ±1%, 1206	MP003749
Chip Resistor, Thick Film, 1/4W, 39k, ±1%, 1206	MP003750
Chip Resistor, Thick Film, 1/4W, 43k, ±1%, 1206	MP003751
Chip Resistor, Thick Film, 1/4W, 47k, ±1%, 1206	MP003752
Chip Resistor, Thick Film, 1/4W, 51k, ±1%, 1206	MP003753
Chip Resistor, Thick Film, 1/4W, 56k, ±1%, 1206	MP003754
Chip Resistor, Thick Film, 1/4W, 68k, ±1%, 1206	MP003755
Chip Resistor, Thick Film, 1/4W, 82k, ±1%, 1206	MP003756
Chip Resistor, Thick Film, 1/4W, 100k, ±1%, 1206	MP003757
Chip Resistor, Thick Film, 1/4W, 120k, ±1%, 1206	MP003758
Chip Resistor, Thick Film, 1/4W, 150k, ±1%, 1206	MP003759
Chip Resistor, Thick Film, 1/4W, 180k, ±1%, 1206	MP003760
Chip Resistor, Thick Film, 1/4W, 200k, ±1%, 1206	MP003761
Chip Resistor, Thick Film, 1/4W, 220k, ±1%, 1206	MP003762
Chip Resistor, Thick Film, 1/4W, 270k, ±1%, 1206	MP003763
Chip Resistor, Thick Film, 1/4W, 330k, ±1%, 1206	MP003764
Chip Resistor, Thick Film, 1/4W, 390k, ±1%, 1206	MP003765
Chip Resistor, Thick Film, 1/4W, 470k, ±1%, 1206	MP003766
Chip Resistor, Thick Film, 1/4W, 560k, ±1%, 1206	MP003767
Chip Resistor, Thick Film, 1/4W, 680k, ±1%, 1206	MP003768
Chip Resistor, Thick Film, 1/4W, 820k, ±1%, 1206	MP003769
Chip Resistor, Thick Film, 1/4W, 1M, ±1%, 1206	MP003770
Chip Resistor, Thick Film, 3/4W, 0R, ±1%, 2010	MP003771
Chip Resistor, Thick Film, 3/4W, 1R, ±1%, 2010	MP003772
Chip Resistor, Thick Film, 3/4W, 2R2, ±1%, 2010	MP003773
Chip Resistor, Thick Film, 3/4W, 10R, ±1%, 2010	MP003774
Chip Resistor, Thick Film, 3/4W, 12R, ±1%, 2010	MP003775
Chip Resistor, Thick Film, 3/4W, 15R, ±1%, 2010	MP003776
Chip Resistor, Thick Film, 3/4W, 16R, ±1%, 2010	MP003777
Chip Resistor, Thick Film, 3/4W, 18R, ±1%, 2010	MP003778
Chip Resistor, Thick Film, 3/4W, 20R, ±1%, 2010	MP003779
Chip Resistor, Thick Film, 3/4W, 22R, ±1%, 2010	MP003780
Chip Resistor, Thick Film, 3/4W, 24R, ±1%, 2010	MP003781
Chip Resistor, Thick Film, 3/4W, 27R, ±1%, 2010	MP003782



multicomp PRO

Description	Part Number
Chip Resistor, Thick Film, 3/4W, 28R, ±1%, 2010	MP003783
Chip Resistor, Thick Film, 3/4W, 30R, ±1%, 2010	MP003784
Chip Resistor, Thick Film, 3/4W, 33R, ±1%, 2010	MP003785
Chip Resistor, Thick Film, 3/4W, 36R, ±1%, 2010	MP003786
Chip Resistor, Thick Film, 3/4W, 39R, ±1%, 2010	MP003787
Chip Resistor, Thick Film, 3/4W, 43R, ±1%, 2010	MP003788
Chip Resistor, Thick Film, 3/4W, 47R, ±1%, 2010	MP003789
Chip Resistor, Thick Film, 3/4W, 56R, ±1%, 2010	MP003790
Chip Resistor, Thick Film, 3/4W, 62R, ±1%, 2010	MP003791
Chip Resistor, Thick Film, 3/4W, 68R, ±1%, 2010	MP003792
Chip Resistor, Thick Film, 3/4W, 82R, ±1%, 2010	MP003793
Chip Resistor, Thick Film, 3/4W, 91R, ±1%, 2010	MP003794
Chip Resistor, Thick Film, 3/4W, 100R, ±1%, 2010	MP003795
Chip Resistor, Thick Film, 3/4W, 110R, ±1%, 2010	MP003796
Chip Resistor, Thick Film, 3/4W, 120R, ±1%, 2010	MP003797
Chip Resistor, Thick Film, 3/4W, 130R, ±1%, 2010	MP003798
Chip Resistor, Thick Film, 3/4W, 140R, ±1%, 2010	MP003799
Chip Resistor, Thick Film, 3/4W, 150R, ±1%, 2010	MP003800
Chip Resistor, Thick Film, 3/4W, 160R, ±1%, 2010	MP003801
Chip Resistor, Thick Film, 3/4W, 180R, ±1%, 2010	MP003802
Chip Resistor, Thick Film, 3/4W, 200R, ±1%, 2010	MP003803
Chip Resistor, Thick Film, 3/4W, 220R, ±1%, 2010	MP003804
Chip Resistor, Thick Film, 3/4W, 240R, ±1%, 2010	MP003805
Chip Resistor, Thick Film, 3/4W, 270R, ±1%, 2010	MP003806
Chip Resistor, Thick Film, 3/4W, 316R, ±1%, 2010	MP003807
Chip Resistor, Thick Film, 3/4W, 330R, ±1%, 2010	MP003808
Chip Resistor, Thick Film, 3/4W, 360R, ±1%, 2010	MP003809
Chip Resistor, Thick Film, 3/4W, 390R, ±1%, 2010	MP003810
Chip Resistor, Thick Film, 3/4W, 470R, ±1%, 2010	MP003811
Chip Resistor, Thick Film, 3/4W, 510R, ±1%, 2010	MP003812
Chip Resistor, Thick Film, 3/4W, 560R, ±1%, 2010	MP003813
Chip Resistor, Thick Film, 3/4W, 620R, ±1%, 2010	MP003814
Chip Resistor, Thick Film, 3/4W, 680R, ±1%, 2010	MP003815
Chip Resistor, Thick Film, 3/4W, 750R, ±1%, 2010	MP003816
Chip Resistor, Thick Film, 3/4W, 820R, ±1%, 2010	MP003817
Chip Resistor, Thick Film, 3/4W, 1k, ±1%, 2010	MP003818
Chip Resistor, Thick Film, 3/4W, 1k2, ±1%, 2010	MP003819
Chip Resistor, Thick Film, 3/4W, 1k5, ±1%, 2010	MP003820
Chip Resistor, Thick Film, 3/4W, 1k8, ±1%, 2010	MP003821
Chip Resistor, Thick Film, 3/4W, 2k2, ±1%, 2010	MP003822
Chip Resistor, Thick Film, 3/4W, 2k7, ±1%, 2010	MP003823
Chip Resistor, Thick Film, 3/4W, 3k3, ±1%, 2010	MP003824

Description	Part Number
Chip Resistor, Thick Film, 3/4W, 3k9, ±1%, 2010	MP003825
Chip Resistor, Thick Film, 3/4W, 4k7, ±1%, 2010	MP003826
Chip Resistor, Thick Film, 3/4W, 5k1, ±1%, 2010	MP003827
Chip Resistor, Thick Film, 3/4W, 5k6, ±1%, 2010	MP003828
Chip Resistor, Thick Film, 3/4W, 6k8, ±1%, 2010	MP003829
Chip Resistor, Thick Film, 3/4W, 8k2, ±1%, 2010	MP003830
Chip Resistor, Thick Film, 3/4W, 10k, ±1%, 2010	MP003831
Chip Resistor, Thick Film, 3/4W, 12k, ±1%, 2010	MP003832
Chip Resistor, Thick Film, 3/4W, 15k, ±1%, 2010	MP003833
Chip Resistor, Thick Film, 3/4W, 18k, ±1%, 2010	MP003834
Chip Resistor, Thick Film, 3/4W, 22k, ±1%, 2010	MP003835
Chip Resistor, Thick Film, 3/4W, 27k, ±1%, 2010	MP003836
Chip Resistor, Thick Film, 3/4W, 33k, ±1%, 2010	MP003837
Chip Resistor, Thick Film, 3/4W, 39k, ±1%, 2010	MP003838
Chip Resistor, Thick Film, 3/4W, 47k, ±1%, 2010	MP003839
Chip Resistor, Thick Film, 3/4W, 56k, ±1%, 2010	MP003840
Chip Resistor, Thick Film, 3/4W, 68k, ±1%, 2010	MP003841
Chip Resistor, Thick Film, 3/4W, 82k, ±1%, 2010	MP003842
Chip Resistor, Thick Film, 3/4W, 100k, ±1%, 2010	MP003843
Chip Resistor, Thick Film, 3/4W, 120k, ±1%, 2010	MP003844
Chip Resistor, Thick Film, 3/4W, 150k, ±1%, 2010	MP003845
Chip Resistor, Thick Film, 3/4W, 180k, ±1%, 2010	MP003846
Chip Resistor, Thick Film, 3/4W, 220k, ±1%, 2010	MP003847
Chip Resistor, Thick Film, 3/4W, 270k, ±1%, 2010	MP003848
Chip Resistor, Thick Film, 3/4W, 330k, ±1%, 2010	MP003849
Chip Resistor, Thick Film, 3/4W, 390k, ±1%, 2010	MP003850
Chip Resistor, Thick Film, 3/4W, 470k, ±1%, 2010	MP003851
Chip Resistor, Thick Film, 3/4W, 560k, ±1%, 2010	MP003852
Chip Resistor, Thick Film, 3/4W, 680k, ±1%, 2010	MP003853
Chip Resistor, Thick Film, 3/4W, 820k, ±1%, 2010	MP003854
Chip Resistor, Thick Film, 3/4W, 1M, ±1%, 2010	MP003855
Chip Resistor, Thick Film, 1W, 0R, ±1%, 2512	MP003856
Chip Resistor, Thick Film, 1W, 1R, ±1%, 2512	MP003857
Chip Resistor, Thick Film, 1W, 1R5, ±1%, 2512	MP003858
Chip Resistor, Thick Film, 1W, 2R2, ±1%, 2512	MP003859
Chip Resistor, Thick Film, 1W, 6R8, ±1%, 2512	MP003860
Chip Resistor, Thick Film, 1W, 10R, ±1%, 2512	MP003861
Chip Resistor, Thick Film, 1W, 12R, ±1%, 2512	MP003862
Chip Resistor, Thick Film, 1W, 15R, ±1%, 2512	MP003863
Chip Resistor, Thick Film, 1W, 18R, ±1%, 2512	MP003864
Chip Resistor, Thick Film, 1W, 22R, ±1%, 2512	MP003865
Chip Resistor, Thick Film, 1W, 27R, ±1%, 2512	MP003866





Description	Part Number
Chip Resistor, Thick Film, 1W, 33R, ±1%, 2512	MP003867
Chip Resistor, Thick Film, 1W, 39R, ±1%, 2512	MP003868
Chip Resistor, Thick Film, 1W, 47R, ±1%, 2512	MP003869
Chip Resistor, Thick Film, 1W, 56R, ±1%, 2512	MP003870
Chip Resistor, Thick Film, 1W, 68R, ±1%, 2512	MP003871
Chip Resistor, Thick Film, 1W, 82R, ±1%, 2512	MP003872
Chip Resistor, Thick Film, 1W, 91R, ±1%, 2512	MP003873
Chip Resistor, Thick Film, 1W, 100R, ±1%, 2512	MP003874
Chip Resistor, Thick Film, 1W, 120R, ±1%, 2512	MP003875
Chip Resistor, Thick Film, 1W, 150R, ±1%, 2512	MP003876
Chip Resistor, Thick Film, 1W, 180R, ±1%, 2512	MP003877
Chip Resistor, Thick Film, 1W, 220R, ±1%, 2512	MP003878
Chip Resistor, Thick Film, 1W, 270R, ±1%, 2512	MP003879
Chip Resistor, Thick Film, 1W, 330R, ±1%, 2512	MP003880
Chip Resistor, Thick Film, 1W, 390R, ±1%, 2512	MP003881
Chip Resistor, Thick Film, 1W, 470R, ±1%, 2512	MP003882
Chip Resistor, Thick Film, 1W, 536R, ±1%, 2512	MP003883
Chip Resistor, Thick Film, 1W, 560R, ±1%, 2512	MP003884
Chip Resistor, Thick Film, 1W, 680R, ±1%, 2512	MP003885
Chip Resistor, Thick Film, 1W, 820R, ±1%, 2512	MP003886
Chip Resistor, Thick Film, 1W, 1k, ±1%, 2512	MP003887
Chip Resistor, Thick Film, 1W, 1k2, ±1%, 2512	MP003888
Chip Resistor, Thick Film, 1W, 1k5, ±1%, 2512	MP003889
Chip Resistor, Thick Film, 1W, 1k8, ±1%, 2512	MP003890
Chip Resistor, Thick Film, 1W, 2k2, ±1%, 2512	MP003891
Chip Resistor, Thick Film, 1W, 2k7, ±1%, 2512	MP003892
Chip Resistor, Thick Film, 1W, 3k3, ±1%, 2512	MP003893
Chip Resistor, Thick Film, 1W, 3k9, ±1%, 2512	MP003894
Chip Resistor, Thick Film, 1W, 4k7, ±1%, 2512	MP003895

Description	Part Number
Chip Resistor, Thick Film, 1W, 5k6, ±1%, 2512	MP003896
Chip Resistor, Thick Film, 1W, 6k8, ±1%, 2512	MP003897
Chip Resistor, Thick Film, 1W, 8k2, ±1%, 2512	MP003898
Chip Resistor, Thick Film, 1W, 10k, ±1%, 2512	MP003899
Chip Resistor, Thick Film, 1W, 12k, ±1%, 2512	MP003900
Chip Resistor, Thick Film, 1W, 15k, ±1%, 2512	MP003901
Chip Resistor, Thick Film, 1W, 18k, ±1%, 2512	MP003902
Chip Resistor, Thick Film, 1W, 22k, ±1%, 2512	MP003903
Chip Resistor, Thick Film, 1W, 27k, ±1%, 2512	MP003904
Chip Resistor, Thick Film, 1W, 33k, ±1%, 2512	MP003905
Chip Resistor, Thick Film, 1W, 39k, ±1%, 2512	MP003906
Chip Resistor, Thick Film, 1W, 47k, ±1%, 2512	MP003907
Chip Resistor, Thick Film, 1W, 56k, ±1%, 2512	MP003908
Chip Resistor, Thick Film, 1W, 68k, ±1%, 2512	MP003909
Chip Resistor, Thick Film, 1W, 82k, ±1%, 2512	MP003910
Chip Resistor, Thick Film, 1W, 100k, ±1%, 2512	MP003911
Chip Resistor, Thick Film, 1W, 120k, ±1%, 2512	MP003912
Chip Resistor, Thick Film, 1W, 150k, ±1%, 2512	MP003913
Chip Resistor, Thick Film, 1W, 180k, ±1%, 2512	MP003914
Chip Resistor, Thick Film, 1W, 220k, ±1%, 2512	MP003915
Chip Resistor, Thick Film, 1W, 270k, ±1%, 2512	MP003916
Chip Resistor, Thick Film, 1W, 330k, ±1%, 2512	MP003917
Chip Resistor, Thick Film, 1W, 390k, ±1%, 2512	MP003918
Chip Resistor, Thick Film, 1W, 470k, ±1%, 2512	MP003919
Chip Resistor, Thick Film, 1W, 560k, ±1%, 2512	MP003920
Chip Resistor, Thick Film, 1W, 680k, ±1%, 2512	MP003921
Chip Resistor, Thick Film, 1W, 820k, ±1%, 2512	MP003922
Chip Resistor, Thick Film, 1W, 1M, ±1%, 2512	MP003923

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

