

Standard Chip Resistors

Features

- Ultra-miniature packages (MCR006 (0201)).

Precision (class D) Thick Film Resistors



Features

- The new MCR03EZPD 0.5% tolerance (Available in 0603 package).
- Ultra-small 0603 size.
- T.C.R Guarantee = ± 50ppm/°C
- High reliability.



Standard Chip Resistors

Series	Tolerances	Size	Range	Values
MCR006	± 1%	0201	100Ω~1MΩ	E24
	± 5%		10Ω~1MΩ	E24
MCR01	± 1%	0402	100Ω~2.2MΩ	E24
	± 5%		2.2Ω~3.3MΩ	E24
MCR03	± 0.5%	0603	100Ω~910KΩ	E24
	± 1%		10Ω~2.2MΩ	E24,E96
	± 5%		1Ω~10MΩ	E24
MCR10	± 1%	0805	10Ω~2.2MΩ	E24,E96
	± 5%		1Ω~10MΩ	E24
MCR18	± 1%	1206	10Ω~2.2MΩ	E24,E96
	± 5%		1Ω~10MΩ	E24
MCR25	± 1%	1210	1Ω~1MΩ	E24,E96
	± 5%		1Ω~3.3MΩ	E24
MCR50	± 1%	2010	10Ω~180KΩ	E24,E96
	± 5%		1Ω~560KΩ	E24
MCR100	± 1%	2512	10Ω~82KΩ	E24,E96
	± 5%		1Ω~100KΩ	E24

Low Ohmic Values

Series	Tolerances	Size	Range	Values
MCR10	± 1%	0805	0.1Ω~10Ω	E24
	± 5%		0.1Ω~1Ω	E24
MCR18	± 1%	1206	0.1Ω~10Ω	E24
	± 5%		0.1Ω~1Ω	E24
MCR25	± 1%	1210	0.1Ω~10Ω	E24
	± 5%		0.1Ω~1Ω	E24
MCR50	± 1%	2010	0.1Ω~10Ω	E24
	± 5%		0.1Ω~1Ω	E24
MCR100	± 1%	2512	0.1Ω~10Ω	E24
	± 5%		0.1Ω~1Ω	E24

Low Ohmic Resistors

Features

- Line-ups - 5 sizes from 0805 to 2512. (Same shape as regular chip resistor)
- No burning even if over loaded. (Adopt non-flammable glass material for coating)
- Marking appears on each chip resistor.

Small Size Chip Resistor Networks and Arrays

Features

- Compact multi-elements networks and arrays.
- Reduced mounting costs.
- No through hole design is necessary.

Arrays

Series	Terminals	Size	Tolerance	Range	Value
MNR02	4	0402x2	± 5%	10Ω~1MΩ	E24
MNR04	8	0402x4	± 5%	10Ω~1MΩ	E24
MNR12	4	0603x2	± 5%	10Ω~1MΩ	E24
MNR14	8	0603x4	± 5%	2.2Ω~6.8Ω	E6
				10Ω~1MΩ	E24
MNR32	4	1206x2	± 5%	10Ω~1MΩ	E24
MNR34	8	1206x4	± 5%	10Ω~1MΩ	E24
MNR18	16	0603x8	± 5%	10Ω~1MΩ	E24

Networks

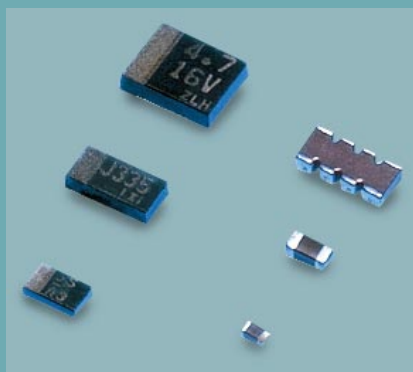
Series	Terminals	Size	Tolerance	Range	Value
MNR35	10	1206x5	± 5%	15Ω~100KΩ	E12
MNR15	10	0603x5	± 5%	56Ω~100KΩ	E24



Multi Layer Ceramic Chip Capacitors (MCH15 (0402) MCH18 (0603))

Features

- Barrier layer and end terminations to improve solderability
- Suitable for flow and reflow soldering



Standard Chip Capacitors

Series	Size	Dielectric	Voltage	Tolerance	Range	Values
MCH15	0402	COG	50V	±0.25pF	0.5pF~5pF	E24
				±0.5pF	5.1pF~10pF	
				±5%	11pF~220pF	
		X7R	50V	±10%	220pF~3,300pF	E6
			25V		4,700pF~6,800pF	
			16V		10,000pF	
		Y5V	50V	+80%, -20%	1,000pF~10,000pF	E3
			25V		22,000	
			16V		47,000pF~100,000pF	
MCH18	0603	COG	50V	±0.25pF	0.5pF~5pF	E24
				±0.5pF	5.1pF~10pF	
				±5%	11pF~820pF	
		X7R	50V	±10%	220pF~6,800pF	E6
			50V		1,000pF~100,000pF	
		Y5V	50V	+80%, -20%	1,000pF~100,000pF	E3
			50V		1,000pF~100,000pF	

Capacitor Arrays

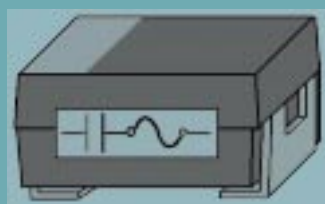
Series	Size	Terminals	Dielectric	Voltage	Tolerance	Range	Values
MNA14	0603x4	8	COG	50V	±10%	10pF~470pF	E6
			X7R	25V	±20%	1,000pF~22,000pF	E6

Tantalum Capacitors (TCFG Series)

Features

- Open-function in small package.
- Low impedance with large capacitance.
- Superior Solderability.

Circuit Equivalent



Tantalum Capacitors

Series	Size	Voltage	Tolerance	Range	Value
TCFGA	3216	4V	±10% ±20%	4.7µF~47µF	E6
		6.3V	±10% ±20%	3.3µF~33µF	
		10V	±10% ±20%	1.5µF~15µF	
		16V	±10% ±20%	1µF~6.8µF	
		20V	±10% ±20%	1µF	
TCFGP	2012	4V	±10% ±20%	2.2µF~22µF	E6
		6.3V	±10% ±20%	1.5µF~15µF	
		10V	±10% ±20%	1µF~4.7µF	
		16V	±10% ±20%	1µF	