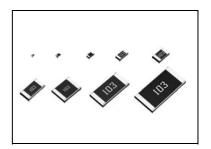


Thick film chip resistors

MCR series Datasheet

Features

- 1) Full line up from ultra small size (01005) to 2512 with jumper type.
- 2) High reliability metal glazed thick film.
- 3) ROHM resistors have obtained ISO9001/ISO/TS16949 certification.



Part No.	Si	ze I	Type code	Packaging	Quantity/Reel	Automotive Grade
r dittio.	(mm)	(inch)	1900 0000	specifications	Quartery / 1 tool	Available
MCR004	0402	01005	QLP	Paper tape(2mmPtch)	20,000	_
MCR006	0603	0201	YLP	Paper tape(2mmPtch)	15,000	Yes
MCR01	1005	0402	MZP	Paper tape(2mmPtch)	10,000	Yes
MCR03	1608	0603	EZP	Paper tape(4mmPtch)	5,000	Yes
MCR10	2012	0805	EZP	Paper tape(4mmPtch)	5,000	Yes
MCR18	3216	1206	EZP	Paper tape(4mmPtch)	5,000	Yes
MCR25	3225	1210	JZH	Embossed tape(4mm Ptch)	4,000	Yes
MCR50	5025	2010	JZH	Embossed tape(4mm Ptch)	4,000	Yes
MCR100	6432	2512	JZH	Embossed tape(4mmPtch)	4,000	Yes

Part number description



0 0 4





1 0 0

Part No.

MCR
(Micro chip resistors)

Size (mm [inch])

004 (0402 [01005])

006 (0603 [0201])

01 (1005 [0402])

03 (1608 [0603])

10 (2012 [0805])

18 (3216 [1206])

25 (3225 [1210])

50 (5025 [2010])

100 (6432 [2512])

Type code

D (±0.5%) F (±1%) FX (±1%) *Only MCR03EZP J (±5%) (Including jumper type)

Resistance tolerance

Nominal resistance
Resistance code, 3 or 4 digits.
000 denotes jumper type.

			71
	Resistance		Resistance
	tolerance		code
	D,F	:	4 digits
	J	:	3 digits
Е	(.)		

 $1\Omega = 1R0$ (±5%) $9.1\Omega = 9R1$ (±5%) $10\Omega = 10R0$ (±0.5%,±1%) 100 (±5%) $2.2M\Omega = 2204$ (±0.5%,± 1%) 225 (±5%) MCR series Datasheet

Products list

Products is	-	Rated power	Limiting element	Temperature	Resistance	Resistan	nce range	Operating			
Part No.	Type code	(70°C)	voltage	coefficient	tolerance		J	temperature range			
		(VV)	(V)	(ppm/°C)	(%)	•	Ω)	(°C)			
				±300	F (±1%)	10≦R<100	(E24/96 series)				
				±250	F (±1%)	100≦R≦3M	(E24/96 series)				
MCR004	QLP	0.031	15	+600/-100	J (±5%)	1.0≦R<10	(E24 series)	-55 ~ +125			
				±300	J (±5%)	10≦R<100	(E24 series)				
				±250	J (±5%)	100≦R≦3M	(E24 series)				
			Jumper	type)Rmax:50r	D(±0.5%)		(E24/96 series)				
				±200 ±100	D(±0.5%)	10≦R<1k 1k≦R≦1M	(E24/96 series)				
		0.05	25	±250	F (±1%)	10≦R≦10M	(E24/96 series)				
MCR006	YLP	0.03	23	+600 / -200	J (±5%)	15≧R≦ 10W 1≦R<10	(E24 series)	-55 ~ +125			
				±250	J (±5%)	10≦R≦10M	(E24 series)				
		l	.lumner	type)Rmax:50r	. ,		(EET GORIGO)				
			Garipoi	±100	D (±0.5%)	10≦R<100	(E24 series)				
				±50	D (±0.5%)	100≦R≦1M	(E24 series)				
		0.063	50	±100	F(±1%)	10≦R≦2.2M	(E24/96 series)				
MCR01	MZP	0.000		+500/-250	J (±5%)	1.0≦R<10	(E24 series)	-55 ∼ +155			
				±200	J (±5%)	10≦R≦10M	(E24 series)				
			Jumpe	rtype)Rmax:50	OmΩMax., Imax	: 1A					
				±100	D (±0.5%)	10≦R<100	(E24/96 series)				
				±50	D (±0.5%)	100≦R≦1M	(E24/96 series)				
MCR03	EZP	0.10	50	±100	FX(±1%)	10≦R≦10M	(E24/96 series)	-55 ~ +155			
IVICAUS				±400	J (±5%)	1≦R<10	(E24 series)	-55 ~ +155			
				±200	J (±5%)	10≦R≦10M	(E24 series)				
			Jumpe	rtype)Rmax:50							
		0.100	150	±100	D (±0.5%)	10≦R<100	(E24/96 series)	-55 ∼ +155			
			100	±50	D (±0.5%)	100≦R≦1M	(E24/96 series)	-55 ~ +155			
MCR10	EZP			±100	F (±1%)	10≦R≦2.2M	(E24/96 series)				
			150	±400	J (±5%)	1.0≦R<10	(E24 series)				
				±200	J (±5%)	10≦R≦10M	(E24 series)	33 133			
			Jumpe	rtype)Rmax:50	D(±0.5%)		(E24/96 series)				
		0.125	200	±100 ±50	D(±0.5%)	10≦R<100 100≦R≦1M	(E24/96 series)	-55 ~ +155			
				±100	F(±1%)	100≦R≦ IW 10≦R≦2.2M	(E24/96 series)				
MCR18	EZP	0.25	200	±400	J (±5%)	1.0≦R≦2.2lvi 1.0≦R<10	(E24 series)				
		0.23	200	±200	J (±5%)	10≦R≤10M	(E24 series)	-55 ~ +155			
			.lumpe	rtype)Rmax:50	` '		(EET GORIGO)				
		I	Janpo	±100	F (±1%)	. 2∩ 10≦R≦1M	(E24/96 series)				
		**	000	500±350	J (±5%)	1.0≦R<2.2	(E24 series)				
MCR25	JZH	0.5 to 0.5 *1	200	±500	J (±5%)		(E24 series)	-55 ~ +155			
				±200	J (±5%)		(E24 series)				
			Jumpe	rtype)Rmax:50	OmΩMax., Imax						
				±100	F (±1%)	10 ≦ R ≦ 180k	(E24/96 series)				
				500±350	J (±5%)	1.0 ≦ R < 2.2	(E24 series)				
MCR50	JZH	0.5	200	±500	J (±5%)		(E24 series)	-55 ∼ +155			
WICHOU	U <u>~</u> II			±200	J (±5%)	$10 \le R \le 330k$		-00 :- 1100			
				±350	J (±5%)	$330k < R \le 560k$	(E24 series)				
			Jumpe	rtype)Rmax:50			(E04/00 : :				
				±100	F (±1%)		(E24/96 series)				
			000	500±350	J (±5%)	1.0≦R<2.2	(E24 series)				
MCR100	JZH	1	200	±500	J (±5%)	2.2≦R<10	(E24 series)	-55 ∼ +125			
				±350	J (±5%)	10≦R<24	(E24 series)				
				±200	J (±5%)	24≦R≦100k	(E24 series)				
			Jumpe ithout notice Carefully	rtype)Rmax:50							

^{*} Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

When rated voltage exceeds the limiting element voltage, the limiting element voltage shall be the rated voltage.

 $[\]ast$ Rated voltage is determained from the following.

^{*} Rated voltage = √ Rated power × Rasistance

^{*} E24 : Standard products, E96 : Custom products

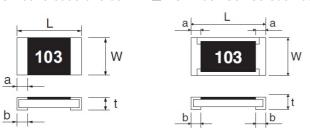
^{*1.} Rated power $~1\Omega\sim9.76\Omega:~0.25W,~10\Omega\sim9.76k\Omega:~0.5W,~10k\Omega\sim3.3M\Omega:~0.33W$

MCR series Datasheet

Chip resistor dimensions and markings

■MCR 004 / 006 / 01 / 03

■ MCR 10 / 18 / 25 / 50 / 100



<Marking method>

There are three or four digits used for the calculation number according to IEC code and Ris used for the decimal point.

(Unit:mm)

Part No.	Type code	(mm)	(inch)	L	W	t	а	b	Marking existence
MCR004	QLP	0402	01005	0.40 ±0.02	0.20 ±0.02	0.13±0.02	0.10±0.03	0.10±0.03	No
MCR006	YLP	0603	0201	0.60 ±0.03	0.30±0.03	0.23±0.03	0.10±0.05	0.15±0.05	No
MCR01	MZP	1005	0402	1.00 ±0.05	0.50 ±0.05	0.35±0.05	0.20±0.10	0.25 ^{+0.05} _{-0.10}	No
MCR03	EZP	1608	0603	1.60 ±0.10	0.80 ±0.10	0.45±0.10	0.30±0.20	0.30±0.20	Yes*
MCR10	EZP	2012	0805	2.00 ±0.10	1.25±0.10	0.55±0.10	0.40±0.20	0.40±0.20	Yes
MCR18	EZP	3216	1206	3.20±0.15	1.60 ±0.15	0.55±0.10	0.50±0.25	0.50±0.25	Yes
MCR25	JZH	3225	1210	3.20±0.15	2.50 ±0.15	0.55±0.10	0.50±0.25	0.50±0.25	Yes
MCR50	JZH	5025	2010	5.00 ±0.15	2.50 ±0.15	0.55±0.15	0.60±0.25	0.60±0.25	Yes
MCR100	JZH	6432	2512	6.30±0.15	3.20 ±0.15	0.55±0.15	0.60±0.25	0.60±0.25	Yes

Marking method of jumper type

Jumper type	Marking existence
MCR 004 / 006 / 01 / 25 / 50 / 100	No
MCR 03 / 10 / 18	Yes

^{*}Marking method of MCR25/50/100

Blueglass over coat is used for the jumper type.

There is no marking on the jumper type.

For MOR03 series resistors, the printing process restricts the marking to three digits/characters.

Consequently, 1% tolerance resistors with values from the E24 series will be marked the same as 5% resistors with the same value, but 1% tolerance resistors with values from the E96 series will not be marked.

Examples:

MCR03EZPJ243	$(5\% \text{ tolerance, E24 / 24 k}\Omega)$	Marking = 243
MCR03EZPFX2402	(1% tolerance, E24 / 24 k Ω)	Marking = 243
MCR03EZPFX2432	(1% tolerance, E96 / 24.3 k Ω)	No Marking
MCR18EZPJ243	(5% tolerance, E24 / 24 kΩ)	Marking = 243
MOR18EZPF2402	(1% tolerance, E24 / 24 kΩ)	Marking = 2402
MOR18EZPF2432	(1% tolerance, E96 / 24.3 kΩ)	Marking = 2432

^{*}Marking method of MCR03

● Land pattern example

(Unit:mm)

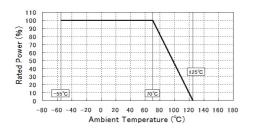
	4	В		→
	<u>D</u> →			
C		▲ A	—	← Land

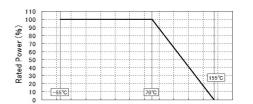
				_ ` ′
Dimensions Part No.	А	В	С	D
MCR004	0.12	0.48	0.22	0.18
MCR006	0.3	0.84	0.3	0.27
MCR01	0.5	1.3	0.5	0.4
MCR03	1.0	2.0	0.8	0.5
MCR10	1.2	2.6	1.15	0.7
MCR18	2.2	4.0	1.5	0.9
MCR25	2.2	4.0	2.3	0.9
MCR50	3.8	6.0	2.3	1.1
MCR100	5.1	8.1	3.0	1.5

Derating curve

When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below.

■MCR 004 / 100





-20 0 20 40 60 80 100 120 140 160 180 Ambient Temperature (°C)

■MCR 006 / 01 / 03 / 10 / 18 / 25 / 50

Characteristics

Test items	Guarant	teed value	Test conditions
lestiterns	Resistor type	Jumper type	lest conditions
Resistance	See "Pro	oducts list"	20°C
Variation of resistance with temperature	See "Pro	oducts list"	Weasurement: +25/-55, +25/+125°C
Overload	±(2.0%+0.1Ω)	MAX. 50mΩ	Test voltage is the smaller one of ① or ② ①Rated voltage(current)×2.5, 2s ②Maximumoverload voltage ※
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.		Rosin-ethanol solution(25% w eight) Soldering condition: 245±5°C Duration of immersion: 2.0±0.5s
Resistance to soldering heat	±(1.0% + 0.05Ω) No remarkable abnorm	MAX. 50mΩ ality on the appearance.	Soldering condition: 260±5°C Duration of immersion: 10±1s
Rapid change of temperature	±(1.0%+0.05Ω)	MAX. 50mΩ	Test temp55°C~+125°C 1000cycle(MCR01) -55°C~+125°C 100cycle(MCR004/006) -55°C~+125°C 5cycle(MCR03/10/18/25/50/100)
Damp heat, steady state	±(3.0% + 0.1Ω)	MAX. 100mΩ	40°C, 93%(Relative humidity) Test time: 1,000h
Endurance at 70°C	±(3.0%+0.1Ω)	MAX. 100mΩ	Rated voltage(current),70°C±3°C 1.5h:ON-0.5h:OFF Test time: 1,000h
Endurance	±(3.0%+0.1Ω)	MAX. 100mΩ	125°C (MCR004/100) 155°C (MCR006/01/03/10/18/25/50) Test time: 1,000h
Resistance to solvent	±(1.0% + 0.05Ω)	MAX. 50mΩ	23±5°C, Immersion cleaning, 5±0.5min Solvent: 2-propanol
Bend strength of	\pm (1.0% + 0.05Ω)	MAX. 50mΩ	
the end face plating	Without mechanical da	amage such as breaks.	-

※Maximum overload voltage (Test voltage)

 MCR004
 MCR006
 MCR01
 MCR03
 MCR10
 MCR18
 MCR25
 MCR50
 MCR100

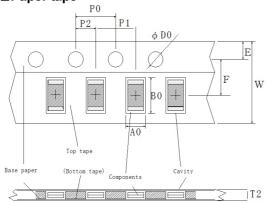
 30V
 50V
 100V
 100V
 200V
 400V
 400V
 400V
 400V
 400V

Compliance Standard(s): IEC60115-8

JISC 5201-8

●Tape dimensions

■Paper tape

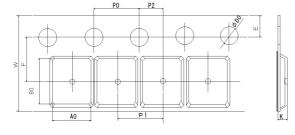


(Unit:mm)

						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Part No.	Type code	W	F	Е	A0	B0
MCR004	QLP	8.0±0.20	3.5±0.05	1.75±0.10	0.24±0.03	0.45±0.03
MCR006	YLP	8.0±0.20	3.5±0.05	1.75±0.10	0.38±0.03	0.68±0.03
MCR01	MZP	8.0±0.3	3.5±0.05	1.75±0.1	0.7±0.1	1.2±0.1
MCR03	EZP	8.0±0.3	3.5±0.05	1.75±0.1	1.1±0.1	1.9±0.1
MCR10	EZP	8.0±0.3	3.5±0.05	1.75±0.1	1.65 ^{+0.2} _{-0.1}	2.4 ^{+0.2} _{-0.1}
MCR18	EZP	8.0±0.3	3.5±0.05	1.75±0.1	1.95 ^{+0.1} _{-0.05}	3.5 +0.15 -0.05

Part No.	Type code	D0	P0	P1	P2	T2
MCR004	QLP	Ф1.5 ^{+0.10}	4.0±0.10	2.0±0.05	2.0±0.05	MAX0.50
MCR006	YLP	Ф1.5 ^{+0.10}	4.0±0.10	2.0±0.05	2.0±0.05	MAX0.50
MCR01	MZP	Ф1.5 ^{+0.1}	4.0±0.1	2.0±0.05	2.0±0.05	MAX1.1
MCR03	EZP	Ф1.5 ^{+0.1}	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
MCR10	EZP	Ф1.5 ^{+0.1}	4.00.1	4.0±0.1	2.0±0.05	MAX1.1
MCR18	EZP	Ф1.5 ^{+0.1}	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1

■Embossed tape



(Unit:mm)

Part No.	Type code	W	F	E	A0	B0
MCR25	JZH	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
MCR50	JZH	12.0±0.3	5.5±0.05	1.75±0.1	3.4±0.2	5.6±0.2
MCR100	JZH	12.0±0.3	5.5±0.05	1.75±0.1	3.5±0.2	6.7±0.2

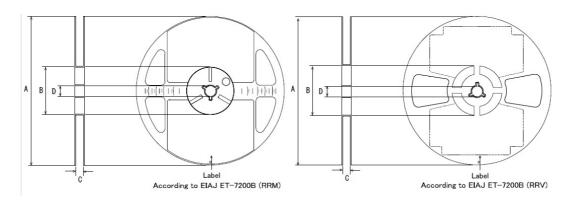
Part No.	Type code	W	F	E	A0	B0
MCR25	JZH	Ф1.5 ^{+0.1}	4.0 ±0.1	4.0±0.1	2.0±0.05	MAX1.1
MCR50	JZH	Ф1.5 ^{+0.1}	4.0 ±0.1	4.0±0.1	2.0±0.05	MAX1.1
MCR100	JZH	Ф1.5 ^{+0.1}	4.0 ±0.1	4.0±0.1	2.0±0.05	MAX1.1

MCR series Datasheet

Reel dimensions

①MCR 004/006/01/03/10/18/25/50/100

2MCR 004/006/01/03/10/18/25



(Unit:mm)

-		_	5	5	(0:::::)
Part No.	Type code	Α	В	С	D
MCR004	QLP				
MCR006	YLP	1			
MCR01	MZP	0	14.0	14.0	
MCR03	EZP	Ф180 ⁰	Ф60 ^{+1.0}	9 ^{+1.0}	Ф13±0.2
MCR10	EZP	-1.5	U	U	
MCR18	EZP	1			
MCR25	JZH				
MCR50	JZH			13 +1.0	
MCR100	JZH			130	

Notice

Precaution on using ROHM Products

1. If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment (Note 1), aircraft/spacecraft, nuclear power controllers, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Applications

JAPAN	USA	EU	CHINA	
CLASSⅢ	OL ACOM	CLASS II b	OL A COM	
CLASSIV	CLASSⅢ	CLASSⅢ	CLASSⅢ	

- 2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:
 - [a] Installation of protection circuits or other protective devices to improve system safety
 - [b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure
- 3. Our Products are not designed under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc, prior to use, must be necessary:
 - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
 - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
 - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
 - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
 - If Sealing or coating our Products with resin or other coating materials
 - [g] Use of our Products without cleaning residue of flux (even if you use no-clean type fluxes, cleaning residue of flux is recommended); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
 - [h] Use of the Products in places subject to dew condensation
- 4. The Products are not subject to radiation-proof design.
- 5. Please verify and confirm characteristics of the final or mounted products in using the Products.
- 6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse. is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- 7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
- 8. Confirm that operation temperature is within the specified range described in the product specification.
- 9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

Precaution for Mounting / Circuit board design

- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

Precautions Regarding Application Examples and External Circuits

- 1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
- You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

Precaution for Electrostatic

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

Precaution for Storage / Transportation

- 1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
 - [a] the Products are exposed to sea winds or corrosive gases, including Cl2, H2S, NH3, SO2, and NO2
 - [b] the temperature or humidity exceeds those recommended by ROHM
 - [c] the Products are exposed to direct sunshine or condensation
 - [d] the Products are exposed to high Electrostatic
- Even under ROHM recommended storage condition, solderability of products out of recommended storage time period
 may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is
 exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

Precaution for Product Label

A two-dimensional barcode printed on ROHM Products label is for ROHM's internal use only.

Precaution for Disposition

When disposing Products please dispose them properly using an authorized industry waste company.

Precaution for Foreign Exchange and Foreign Trade act

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

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