

Low Ohmic Thick Film Chip Resistors

MCR Series

●Features

- 1) Very-low ohmic resistance from 47mΩ is in lineup by thick-film resistive element.
- 2) ROHM resistors have obtained ISO9001 / ISO / TS16949 certification.
- 3) "Automotive" product is AEC-Q200 compliant.



Part No.	Size		Type Code		Packing Specification	Quantity / Reel
	(mm)	(inch)	GENERAL PURPOSE	AUTOMOTIVE *Corresponds to AEC-Q200		
MCR006	0603	0201	YRT	YZP	Paper tape (2mm Pitch)	15,000
MCR01	1005	0402	MRT	MZP		10,000
MCR03	1608	0603	ERT	EZP	Paper tape (4mm Pitch)	5,000
MCR10	2012	0805	EZH			
MCR18	3216	1206	EZH			
MCR25	3225	1210	JZH		Embossed tape (4mm Pitch)	4,000
MCR50	5025	2010	JZH			
MCR100	6432	2512	JZH			

*Please contact us for status of AEC-Q200 on "General purpose" products.

●Part Number Description

Part No.	Size (mm [inch])	Type Code	Resistance Tolerance	Special part code	Nominal Resistance
MCR (Micro chip resistors)	006 (0603 [0201]) 01 (1005 [0402]) 03 (1608 [0603]) 10 (2012 [0805]) 18 (3216 [1206]) 25 (3225 [1210]) 50 (5025 [2010]) 100 (6432 [2512])	EZH	F (±1%) J (±5%)	L 0.1 to 9.1Ω (±1%) 0.1 to 0.91Ω (±5%) S 0.047 to 0.091Ω	Resistance code, 3 or 4 digits. Resistance tolerance + Resistance code Special P / N FL, FS, JS : 4 digits JL : 3 digits Ex.) 0.047Ω = R047 (±1%, ±5%) 9.1Ω = 9R10 (±1%) 9R1 (±5%)

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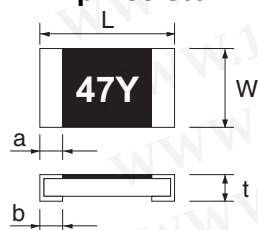
●Products List

Part No.	Type Code	Rated Power (70°C) (W)	Limiting Element Voltage (V)	Maximum Overload Voltage (V)	Temperature Coefficient (ppm / °C)	Resistance Tolerance (%)	Resistance Range	Series	Operating Temperature Range (°C)
MCR006	YRT	0.05	0.67	1.34	±600 / -200	F(±1%)	1.0Ω to 9.1Ω		-55 to +125
MCR01	MRT	0.063	0.76	1.52	±400	F(±1%)	1.0Ω to 9.1Ω		
MCR03	ERT	0.1	0.95	1.90	±400	F(±1%)	1.0Ω to 9.1Ω		
MCR10	EZH	0.25	1.51	3.02	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω	E24	-55 to +155
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		
MCR18	EZH	0.25	1.51	3.02	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω		
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		
MCR25	JZH	0.5	2.13	4.26	300±300 ±200	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.91Ω		
					300±300 ±200	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 9.1Ω		
MCR50	JZH	0.5	2.13	4.26	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω		
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		
MCR100	JZH	1	3.01	6.02	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω		-55 to +125
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		

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●Chip Resistor Dimensions and Markings



<Marking method>

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

(Unit : mm)

Part No.	Type Code	(mm)	(inch)	L	W	t	a	b	Marking existence
MCR006	YRT	0603	0201	0.6±0.03	0.3±0.03	0.23±0.03	0.15±0.05	0.15±0.05	No
MCR01	MRT	1005	0402	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.1}	No
MCR03	ERT	1608	0603	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2	Yes *
MCR10	EZH	2012	0805	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2	Yes
MCR18	EZH	3216	1206	3.2±0.15	1.6±0.15	0.55±0.1	0.5±0.25	0.5±0.25	Yes
MCR25	JZH	3225	1210	3.2±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25	Yes
MCR50	JZH	5025	2010	5.0±0.15	2.5±0.15	0.55±0.15	0.6±0.25	0.6±0.25	Yes
MCR100	JZH	6432	2512	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.25	0.6±0.25	Yes

*Marking method of MCR03

The description of markings on the chip resistor are as shown below.

① Marking method :

•For the resistance value contained in E96 series.

The nominal resistance is expressed in 3 digits. The first 2 digits is symbol to the resistance value and the last one is symbol to multipliers.

Example : 100kΩ = 01d (01d→100×10³=100,000Ω=100kΩ)

Example : 3.01kΩ = 47b (47b→301×10¹=3010Ω=3.01kΩ)

•For the resistance value not contained in E96 series and contained in E-24 series.

The marking is expressed by E-24 series in 3 digits and one short bar under the last marking letter.

Example : 390Ω = 39┐

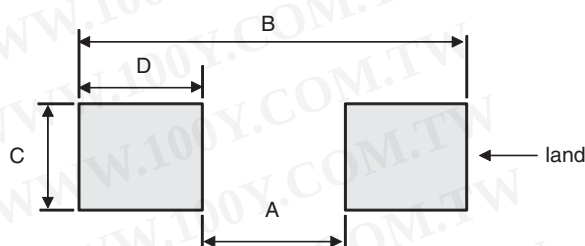
Symbol for E96 Series nominal resistance value

Symbol	E96	Symbol	E96	Symbol	E96	Symbol	E96
01	100	25	178	49	316	73	562
02	102	26	182	50	324	74	576
03	105	27	187	51	332	75	590
04	107	28	191	52	340	76	604
05	110	29	196	53	348	77	619
06	113	30	200	54	357	78	634
07	115	31	205	55	365	79	649
08	118	32	210	56	374	80	665
09	121	33	215	57	383	81	681
10	124	34	221	58	392	82	698
11	127	35	226	59	402	83	715
12	130	36	232	60	412	84	732
13	133	37	237	61	422	85	750
14	137	38	243	62	432	86	768
15	140	39	249	63	442	87	787
16	143	40	255	64	453	88	806
17	147	41	261	65	464	89	825
18	150	42	267	66	475	90	845
19	154	43	274	67	487	91	866
20	158	44	280	68	499	92	887
21	162	45	287	69	511	93	909
22	165	46	294	70	523	94	931
23	169	47	301	71	536	95	953
24	174	48	309	72	549	96	976

Symbol for multipliers

Symbol	A	b	C	d	E	F	X	Y
multipliers	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁻¹	10 ⁻²

●Land pattern Example



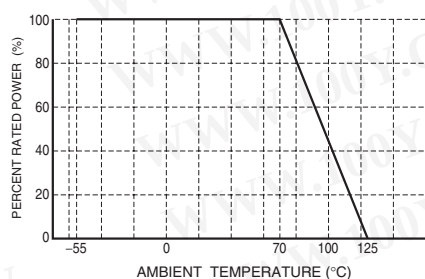
(Unit : mm)

Part No.	Type Code	A	B	C	D
MCR006	YRT	0.3	0.84	0.3	0.27
MCR01	MRT	0.5	1.3	0.5	0.4
MCR03	ERT	1.0	2.0	0.8	0.5
MCR10	EZH	1.2	2.6	1.15	0.7
MCR18	EZH	2.2	4.0	1.5	0.9
MCR25	JZH	2.2	4.0	2.3	0.9
MCR50	JZH	3.8	6.0	2.3	1.1
MCR100	JZH	5.1	8.1	3.0	1.5

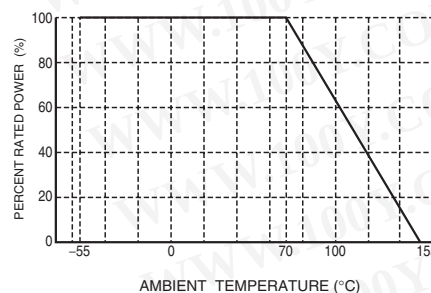
●Derating Curve

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

■ MCR006 / 100



■ MCR01 / 03 / 10 / 18 / 25 / 50



●Characteristics

Test Items	Guaranteed Value	Test Conditions
Resistance	See "Products List"	20°C
Variation of resistance with temperature	See "Products List"	Measurement : +20 / -55 / +20 / +125°C
Overload	$\pm (2.0\%+0.005\Omega)$	Rated voltage (current) $\times 2.5$, 2s. Maximum overload voltage
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	Rosin-Ethanol : 25% (weight) Soldering condition : $235\pm 5^\circ\text{C}$ Duration of immersion : $2.0\pm 0.5\text{s}$
Resistance to soldering heat	$\pm (1.0\%+0.005\Omega)$ No remarkable abnormality on the appearance.	Soldering condition : $260\pm 5^\circ\text{C}$ Duration of immersion : $10\pm 1\text{s}$
Rapid change of temperature	$\pm (1.0\%+0.005\Omega)$	Test temp. -55°C to +125°C 100cycle (MCR006) -55°C to +125°C 5cycle (MCR01 / 03 / 10 / 18 / 25 / 50 / 100)
Damp heat, steady state	$\pm (3.0\%+0.005\Omega)$	40°C, 93%RH (Relative Humidity) Test time : 1,000h to 1,048h
Endurance at 70°C	$\pm (3.0\%+0.005\Omega)$	70°C Rated voltage (current) 1.5h : ON - 0.5h : OFF Test time : 1,000h to 1,048h
Endurance	$\pm (3.0\%+0.005\Omega)$	125°C (MCR006 / 100) 155°C (MCR01 / 03 / 10 / 18 / 25 / 50) Test time : 1,000h to 1,048h
Resistance to solvent	$\pm (1.0\%+0.005\Omega)$ ※MCR006 only $\pm (0.5\%+0.005\Omega)$	23 $\pm 5^\circ\text{C}$, Immersion cleaning, 5 $\pm 0.5\text{min}$ Solvent : 2-propanol
Bend strength of the end face plating	Without Open.	-

Compliance Standard(s) : IEC60115-8
 JISC 5201-8

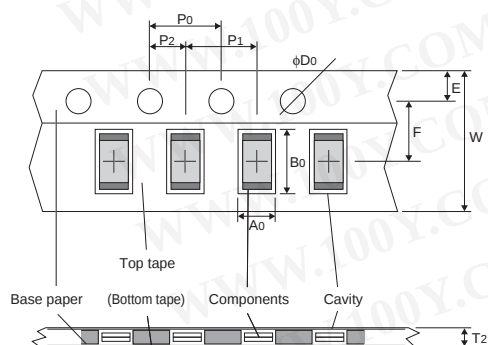
●Chip weight (typical value)

Parameter	Unit	MCR006 YRT	MCR01 MRT	MCR03 ERT	MCR10 EZH	MCR18 EZH	MCR25 JZH	MCR50 JZH	MCR100 JZH
Weight	mg/pc	0.150	0.565	2.03	5.00	9.78	16.5	25.8	42.0

●Tape Dimensions

(Unit : mm)

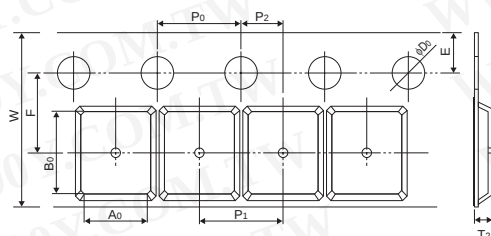
■ Paper Tape



Part No.	Type Code	W	F	E	A0	B0
MCR006	YRT	8.0±0.2	3.5±0.05	1.75±0.1	0.38±0.03	0.68±0.03
MCR01	MRT	8.0±0.3	3.5±0.05	1.75±0.1	0.7±0.1	1.2±0.1
MCR03	ERT	8.0±0.3	3.5±0.05	1.75±0.1	1.0±0.2	1.8±0.1
MCR10	EZH	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	EZH	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
MCR006	YRT	φ1.5 ^{+0.1} ₀	4.0±0.1	2.0±0.05	2.0±0.05	Max 0.5
MCR01	MRT	φ1.5 ^{+0.1} ₀	4.0±0.1	2.0±0.1	2.0±0.05	Max 1.1
MCR03	ERT	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR10	EZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR18	EZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

■ Embossed Tape



(Unit : mm)

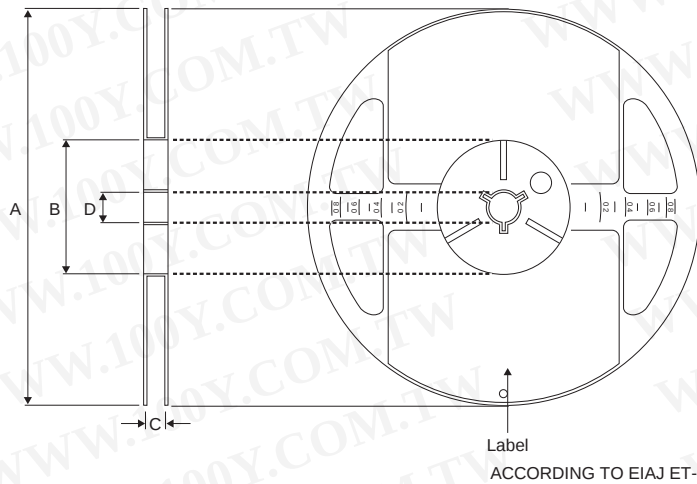
Part No.	Type Code	W	F	E	A0	B0
MCR25	JZH	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
MCR50	JZH	12±0.3	5.5±0.05	1.75±0.1	3.4±0.2	5.6±0.2
MCR100	JZH	12±0.3	5.5±0.05	1.75±0.1	3.5±0.2	6.7±0.2

Part No.	Type Code	D0	P0	P1	P2	T2
MCR25	JZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR50	JZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR100	JZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

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●Reel Dimensions

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(Unit : mm)

Part No.	Type Code	A	B	C	D
MCR006	YRT	$\phi 180 \begin{smallmatrix} 0 \\ -1.5 \end{smallmatrix}$	$\phi 60 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	$9 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	$\phi 13 \pm 0.2$
MCR01	MRT				
MCR03	ERT				
MCR10	EZH				
MCR18	EZH				
MCR25	JZH				
MCR50	JZH			$13 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	
MCR100	JZH				

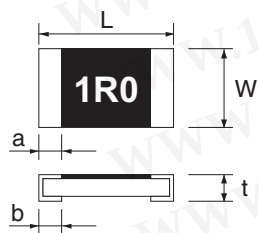
●Products List

Part No.	Type Code	Rated Power (70°C) (W)	Limiting Element Voltage (V)	Maximum Overload Voltage (V)	Temperature Coefficient (ppm / °C)	Resistance Tolerance (%)	Resistance Range	Series	Operating Temperature Range (°C)
MCR006	YZP	0.05	0.67	1.34	±600 / -200	F(±1%)	1.0Ω to 9.1Ω		-55 to +125
MCR01	MZP	0.063	0.76	1.52	±400	F(±1%)	1.0Ω to 9.1Ω		
MCR03	EZP	0.1	0.95	1.90	±400	F(±1%)	1.0Ω to 9.1Ω		
MCR10	EZH	0.25	1.51	3.02	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω	E24	-55 to +155
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		
MCR18	EZH	0.25	1.51	3.02	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω		
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		
MCR25	JZH	0.5	2.13	4.26	300±300 ±200	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.91Ω		
					300±300 ±200	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 9.1Ω		
MCR50	JZH	0.5	2.13	4.26	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω		
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		
MCR100	JZH	1	3.01	6.02	500±300 400±200 ±250	J(±5%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 0.91Ω		-55 to +125
					500±300 400±200 ±250	F(±1%)	0.047Ω to 0.091Ω 0.1Ω to 0.13Ω 0.15Ω to 9.1Ω		

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●Chip Resistor Dimensions and Markings



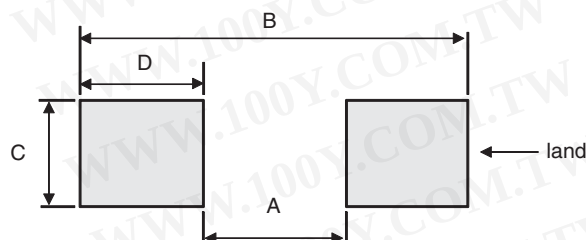
<Marking method>

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

(Unit : mm)

Part No.	Type Code	(mm)	(inch)	L	W	t	a	b	Marking existence
MCR006	YZP	0603	0201	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05	No
MCR01	MZP	1005	0402	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.1}	No
MCR03	EZP	1608	0603	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2	3 digits
MCR10	EZH	2012	0805	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2	Yes
MCR18	EZH	3216	1206	3.2±0.15	1.6±0.15	0.55±0.1	0.5±0.25	0.5±0.25	Yes
MCR25	JZH	3225	1210	3.2±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25	Yes
MCR50	JZH	5025	2010	5.0±0.15	2.5±0.15	0.55±0.15	0.6±0.25	0.6±0.25	Yes
MCR100	JZH	6432	2512	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.25	0.6±0.25	Yes

●Land pattern Example



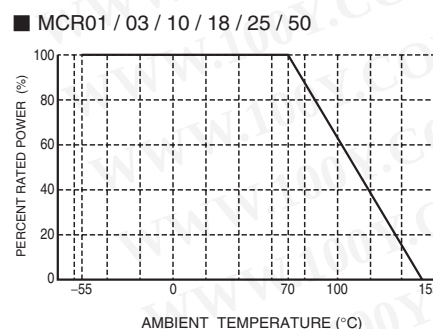
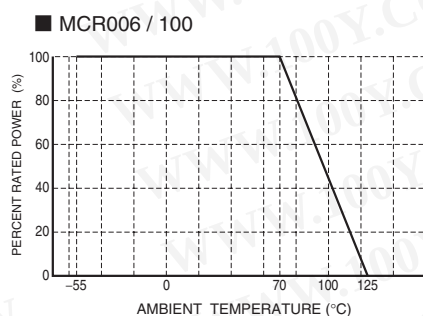
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(Unit : mm)

Part No.	Type Code	A	B	C	D
MCR006	YZP	0.3	0.84	0.3	0.27
MCR01	MZP	0.5	1.3	0.5	0.4
MCR03	EZP	1.0	2.0	0.8	0.5
MCR10	EZH	1.2	2.6	1.15	0.7
MCR18	EZH	2.2	4.0	1.5	0.9
MCR25	JZH	2.2	4.0	2.3	0.9
MCR50	JZH	3.8	6.0	2.3	1.1
MCR100	JZH	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.



●Characteristics

Test Items	Guaranteed Value	Test Conditions
Resistance	See "Products List"	20°C
Variation of resistance with temperature	See "Products List"	Measurement : +20 / -55 / +20 / +125°C
Overload	$\pm (2.0\%+0.005\Omega)$	Rated voltage (current) $\times 2.5$, 2s. Maximum overload voltage
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	Rosin-Ethanol : 25% (weight) Soldering condition : $235\pm 5^\circ\text{C}$ Duration of immersion : $2.0\pm 0.5\text{s}$
Resistance to soldering heat	$\pm (1.0\%+0.05\Omega)$ No remarkable abnormality on the appearance.	Soldering condition : $260\pm 5^\circ\text{C}$ Duration of immersion : $10\pm 1\text{s}$
Rapid change of temperature	$\pm (1.0\%+0.005\Omega)$	Test temp. -55°C to $+125^\circ\text{C}$ 100cycle (MCR006) -55°C to $+125^\circ\text{C}$ 5cycle (MCR01 / 03 / 10 / 18 / 25 / 50 / 100)
Damp heat, steady state	$\pm (3.0\%+0.005\Omega)$	40°C , 93%RH (Relative Humidity) Test time : 1,000h to 1,048h
Endurance at 70°C	$\pm (3.0\%+0.005\Omega)$	70°C Rated voltage (current) 1.5h : ON – 0.5h : OFF Test time : 1,000h to 1,048h
Endurance	$\pm (3.0\%+0.005\Omega)$	125°C (MCR006 / 100) 155°C (MCR01 / 03 / 10 / 18 / 25 / 50) Test time : 1,000h to 1,048h
Resistance to solvent	$\pm (1.0\%+0.005\Omega)$ ※MCR006 only $\pm (0.5\%+0.005\Omega)$	$23\pm 5^\circ\text{C}$, Immersion cleaning, $5\pm 0.5\text{min}$ Solvent : 2-propanol
Bend strength of the end face plating	Without Open.	—

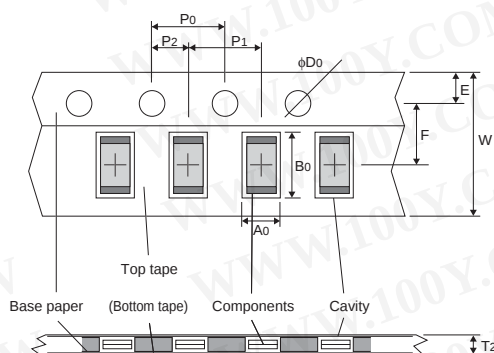
Compliance Standard(s) : IEC60115-8
 JISC 5201-8

●Chip weight (typical value)

Parameter	Unit	MCR006 YZP	MCR01 MZP	MCR03 EZP	MCR10 EZH	MCR18 EZH	MCR25 JZH	MCR50 JZH	MCR100 JZH
Weight	mg/pc	0.15	0.565	2.03	5.00	9.78	16.5	25.8	42.0

●Tape Dimensions

■ Paper Tape

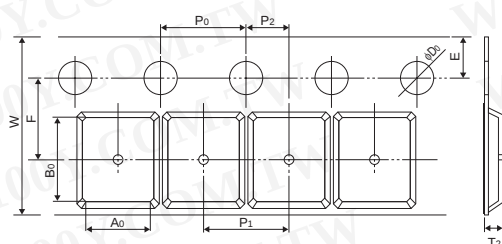


(Unit : mm)

Part No.	Type Code	W	F	E	A0	B0
MCR006	YZP	8.0±0.2	3.5±0.05	1.75±0.1	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	EZH	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	EZH	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
MCR006	YZP	φ1.5 ^{+0.1} ₀	4.0±0.1	2.0±0.05	2.0±0.05	Max 0.5
MCR01	MZP	φ1.5 ^{+0.1} ₀	4.0±0.1	2.0±0.05	2.0±0.05	Max 1.1
MCR03	EZP	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR10	EZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR18	EZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

■ Embossed Tape



(Unit : mm)

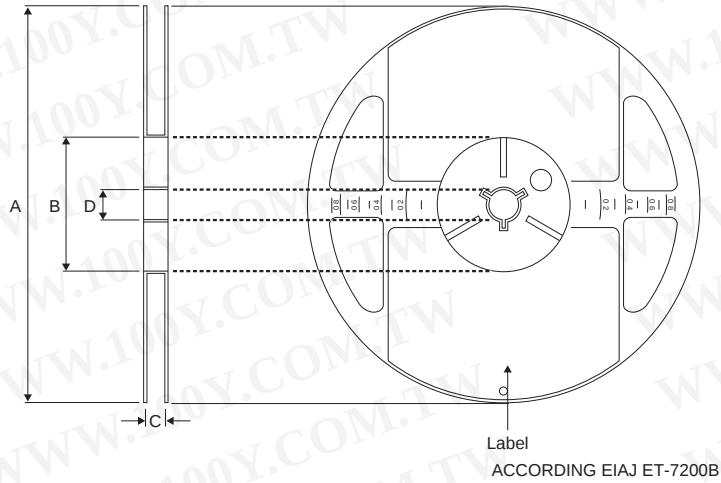
Part No.	Type Code	W	F	E	A0	B0
MCR25	JZH	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
MCR50	JZH	12±0.3	5.5±0.05	1.75±0.1	3.4±0.2	5.6±0.2
MCR100	JZH	12±0.3	5.5±0.05	1.75±0.1	3.5±0.2	6.7±0.2

Part No.	Type Code	D0	P0	P1	P2	T2
MCR25	JZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR50	JZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
MCR100	JZH	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

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[Http://www.100y.com.tw](http://www.100y.com.tw)

●Reel Dimensions

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[Http://www.100y.com.tw](http://www.100y.com.tw)



(Unit : mm)

Part No.	Type Code	A	B	C	D
MCR006	YZP	$\phi 180 \begin{smallmatrix} 0 \\ -1.5 \end{smallmatrix}$	$\phi 60 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	$9 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	$\phi 13 \pm 0.2$
MCR01	MZP				
MCR03	EZP				
MCR10	EZH				
MCR18	EZH				
MCR25	JZH				
MCR50	JZH			$13 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	
MCR100	JZH				

Notes

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