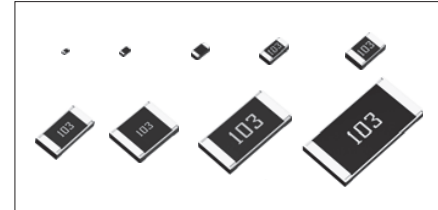


Thick Film Chip Resistors

MCR Series < Automotive >

●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.
- 4) "Automotive" product is AEC-Q200 compliant.



| Part No. | Size | | Type Code | | Packing Specification | Quantity / Reel |
|--|------|--------|--|--|--|-------------------------------|
| | (mm) | (inch) | GENERAL PURPOSE | AUTOMOTIVE *Corresponds to AEC-Q200 | | |
| MCR004 | 0402 | 01005 | YZP | - | Paper tape (2mm pitch) | 15,000 |
| | | | RZP | - | Embossed tape (1mm pitch) | 40,000 |
| MCR006 | 0603 | 0201 | YRT | YZP | Paper tape (2mm pitch) | 15,000 |
| MCR01 | 1005 | 0402 | MRT | MZP | | 10,000 |
| PZPI (*For further information on datasheet, please refer to AUTOMOTIVE datasheet.) | | | | Bulk case | 50,000 | |
| MCR03 | 1608 | 0603 | ERT | EZP | Paper tape (4mm pitch) | 5,000 |
| | | | MZP / PZPI (*For further information on datasheet, please refer to AUTOMOTIVE datasheet.) | | MZP : Paper tape (2mm pitch) PZPI : Bulk case | MZP : 10,000 PZPI : 25,000 |
| MCR10 | 2012 | 0805 | ERT | EZP | Paper tape (4mm pitch) | 5,000 |
| MCR18 | 3216 | 1206 | ERT | EZP | | |
| 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

| <div style="display: flex; justify-content: space-around;"> M C R </div> | <div style="display: flex; justify-content: space-around;"> 0 0 6 </div> | <div style="display: flex; justify-content: space-around;"> Y R T </div> | <div style="border: 1px solid black; padding: 2px; width: 30px; margin: 0 auto;"> J </div> | <div style="display: flex; justify-content: space-around;"> 1 0 0 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|-----------|---|---|---|--|----------------------|-----------|---------|----------------------------------|---------------------------------|---|--------------------|--|---|--|----------------------|-----------------|--------------|----------|------------|----------|------|--|----------------|------------------|------------------------|-----------|--------------------|-----------|
| <table border="1" style="width: 100%;"> <thead> <tr> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>MCR (Micro chip resistors)</td> </tr> </tbody> </table> | Part No. | MCR (Micro chip resistors) | <table border="1" style="width: 100%;"> <thead> <tr> <th>Size (mm [inch])</th> </tr> </thead> <tbody> <tr><td>004 (0402 [01005])</td></tr> <tr><td>006 (0603 [0201])</td></tr> <tr><td>01 (1005 [0402])</td></tr> <tr><td>03 (1608 [0603])</td></tr> <tr><td>10 (2012 [0805])</td></tr> <tr><td>18 (3216 [1206])</td></tr> <tr><td>25 (3225 [1210])</td></tr> <tr><td>50 (5025 [2010])</td></tr> <tr><td>100 (6432 [2512])</td></tr> </tbody> </table> | 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]) | <table border="1" style="width: 100%;"> <thead> <tr> <th>Type Code</th> </tr> </thead> <tbody> <tr><td>Y</td></tr> <tr><td>R</td></tr> <tr><td>T</td></tr> </tbody> </table> | Type Code | Y | R | T | <table border="1" style="width: 100%;"> <thead> <tr> <th>Resistance Tolerance</th> </tr> </thead> <tbody> <tr><td>D (±0.5%)</td></tr> <tr><td>F (±1%)</td></tr> <tr><td>FX (±1%) *Only MCR03EZP/MZP/PZPI</td></tr> <tr><td>J (±5%) (Including jumper type)</td></tr> </tbody> </table> | Resistance Tolerance | D (±0.5%) | F (±1%) | FX (±1%) *Only MCR03EZP/MZP/PZPI | J (±5%) (Including jumper type) | <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Nominal Resistance</th> </tr> </thead> <tbody> <tr> <td colspan="2">Resistance code, 3 or 4 digits. 000 denotes jumper type.</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Resistance tolerance</td> <td style="border: 1px solid black; padding: 2px;">Resistance code</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">D,F :</td> <td style="border: 1px solid black; padding: 2px;">4 digits</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">J :</td> <td style="border: 1px solid black; padding: 2px;">3 digits</td> </tr> <tr> <td colspan="2">Ex.)</td> </tr> <tr><td>1Ω = 1R0 (±5%)</td></tr> <tr><td>9.1Ω = 9R1 (±5%)</td></tr> <tr><td>10Ω = 10R0 (±0.5%,±1%)</td></tr> <tr><td>100 (±5%)</td></tr> <tr><td>2.2MΩ = 2204 (±1%)</td></tr> <tr><td>225 (±5%)</td></tr> </tbody> </table> | Nominal Resistance | | Resistance code, 3 or 4 digits. 000 denotes jumper type. | | Resistance tolerance | Resistance code | D,F : | 4 digits | J : | 3 digits | Ex.) | | 1Ω = 1R0 (±5%) | 9.1Ω = 9R1 (±5%) | 10Ω = 10R0 (±0.5%,±1%) | 100 (±5%) | 2.2MΩ = 2204 (±1%) | 225 (±5%) |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance Tolerance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D (±0.5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F (±1%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FX (±1%) *Only MCR03EZP/MZP/PZPI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J (±5%) (Including jumper type) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal Resistance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance code, 3 or 4 digits. 000 denotes jumper type. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance tolerance | Resistance code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D,F : | 4 digits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J : | 3 digits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ex.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1Ω = 1R0 (±5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.1Ω = 9R1 (±5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10Ω = 10R0 (±0.5%,±1%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 (±5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2MΩ = 2204 (±1%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 225 (±5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

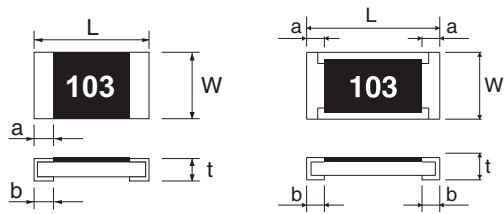
●Products List

| 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 | 25 | - | +600 / -200 | J(±5%) | 1.0Ω to 9.1Ω | E24 | -55 to +125 |
| | | | | | ±250 | F(±1%) | 10Ω to 10MΩ | | |
| | | | | | ±200 | D(±0.5%) | 10Ω to 910Ω | | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 0.5A | | | | |
| MCR01 | MZP PZPI | 0.063 | 50 | - | +500 / -250 | J(±5%) | 1.0Ω to 9.1Ω | E24 | |
| | | | | | ±200 | F(±1%) | 10Ω to 10MΩ | E24,E96 | |
| | | | | | ±100 | D(±0.5%) | 10Ω to 91Ω | E24 | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 1A | | | | |
| MCR03 | EZP MZP PZPI | 0.1 | 50 | 100 | ±400 | J(±5%) | 1.0Ω to 9.1Ω | E24 | |
| | | | | | ±200 | FX(±1%) | 10Ω to 10MΩ | E24,E96 | |
| | | | | | ±100 | D(±0.5%) | 10Ω to 91Ω | E24,E96 | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 1A | | | | |
| MCR10 | EZP | 0.125 | 150 | 200 | ±400 | J(±5%) | 1.0Ω to 9.1Ω | E24 | -55 to +155 |
| | | | | | ±200 | F(±1%) | 10Ω to 10MΩ | E24,E96 | |
| | | 0.1 | 300 | ±100 | D(±0.5%) | 10Ω to 91Ω | E24,E96 | | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 2A | | | | |
| MCR18 | EZP | 0.25 | 200 | 400 | ±400 | J(±5%) | 1.0Ω to 9.1Ω | E24 | |
| | | | | | ±200 | F(±1%) | 10Ω to 10MΩ | E24,E96 | |
| | | 0.125 | ±100 | D(±0.5%) | 10Ω to 91Ω | E24,E96 | | | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 2A | | | | |
| MCR25 | JZH | 0.25 | 200 | 400 | 500±350 | J(±5%) | 1.0Ω to 2.0Ω | E24 | |
| | | | | | ±500 | F(±1%) | 2.2Ω to 5.1Ω | E24,E96 | |
| | | | | | ±200 | F(±1%) | 5.6Ω to 3.3MΩ | E24,E96 | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 2A | | | | |
| MCR50 | JZH | 0.5 | 200 | 400 | 500±350 | J(±5%) | 1.0Ω to 2.0Ω | E24 | |
| | | | | | ±500 | F(±1%) | 2.2Ω to 9.1Ω | E24,E96 | |
| | | | | | ±200 | F(±1%) | 10Ω to 330kΩ | E24,E96 | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 3A | | | | |
| MCR100 | JZH | 1 | 200 | 400 | 500±350 | J(±5%) | 1.0Ω to 2.0Ω | E24 | -55 to +125 |
| | | | | | ±500 | F(±1%) | 2.2Ω to 9.1Ω | E24,E96 | |
| | | | | | ±350 | F(±1%) | 10Ω to 22Ω | E24,E96 | |
| | | | | | Jumper type : Rmax = 50mΩ / Imax. = 4A | | | | |

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

●Chip Resistor Dimensions and Markings

■ MCR004 / 006 / 01 / 03 ■ MCR10 / 18 / 25 / 50 / 100



<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 PZPI | 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 MZP PZPI | 1608 | 0603 | 1.6±0.1 | 0.8±0.1 | 0.45±0.1 | 0.3±0.2 | 0.3±0.2 | Yes * |
| MCR10 | EZP | 2012 | 0805 | 2.0±0.1 | 1.25±0.1 | 0.55±0.1 | 0.4±0.2 | 0.4±0.2 | Yes |
| MCR18 | EZP | 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 jumper type

| Jumper type | Marking existence |
|-----------------------------|-------------------|
| MCR006 / 01 / 25 / 50 / 100 | No |
| MCR03 / 10 / 18 | Yes |

*Marking method of MCR03

For MCR03 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% tolerance, E24 / 24 k Ω) Marking = 243

MCR03EZPF2402 (1% tolerance, E24 / 24 k Ω) Marking = 243

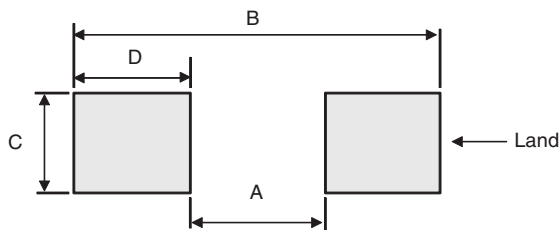
MCR03EZPF2432 (1% tolerance, E96 / 24.3 k Ω) No Marking

MCR18EZPJ243 (5% tolerance, E24 / 24 k Ω) Marking = 243

MCR18EZPF2402 (1% tolerance, E24 / 24 k Ω) Marking = 2402

MCR18EZPF2432 (1% tolerance, E96 / 24.3 k Ω) Marking = 2432

●Land pattern Example



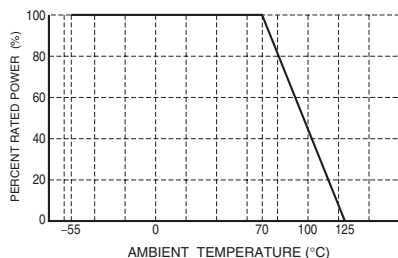
(Unit : mm)

| Part No. | Dimensions Type Code | A | B | C | D |
|----------|-------------------------|-----|------|------|------|
| MCR006 | YZP | 0.3 | 0.84 | 0.3 | 0.27 |
| MCR01 | MZP PZPI | 0.5 | 1.3 | 0.5 | 0.4 |
| MCR03 | EZP MZP PZPI | 1.0 | 2.0 | 0.8 | 0.5 |
| MCR10 | EZP | 1.2 | 2.6 | 1.15 | 0.7 |
| MCR18 | EZP | 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 |

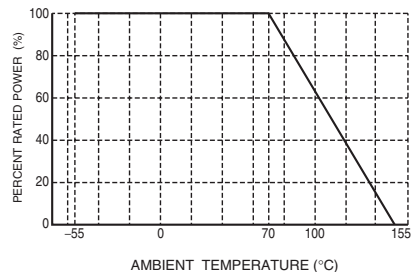
●Derating Curve

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 |
|--|--|-------------|--|
| | Resistor Type | Jumper Type | |
| Resistance | See "Products List" | | 20°C |
| Variation of resistance with temperature | See "Products List" | | Measurement : +20 / -55 / +20 / +125°C |
| Overload | ± (2.0%+0.1Ω) | Max. 50mΩ | Rated voltage (current) ×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±5°C Duration of immersion : 2.0±0.5s |
| Resistance to soldering heat | ± (1.0%+0.05Ω) No remarkable abnormality on the appearance. | Max. 50mΩ | Soldering condition : 260±5°C Duration of immersion : 10±1s |
| Rapid change of temperature | ± (1.0%+0.05Ω) | Max. 50mΩ | Test temp. -55°C to +125°C 100cycle (MCR006 / 01 / 03) -55°C to +125°C 5cycle (MCR10 / 18 / 25 / 50 / 100) |
| Damp heat, steady state | ± (3.0%+0.1Ω) | Max. 100mΩ | 40°C, 93%RH (Relative Humidity) Test time : 1,000h to 1,048h |
| Endurance at 70°C | ± (3.0%+0.1Ω) | Max. 100mΩ | 70°C Rated voltage (current) 1.5h : ON - 0.5h : OFF Test time : 1,000h to 1,048h |
| Endurance | ± (3.0%+0.1Ω) | Max. 100mΩ | 125°C (MCR006 / 25 / 50 / 100) 155°C (MCR01 / 03 / 10 / 18) Test time : 1,000h to 1,048h |
| Resistance to solvent | ± (1.0%+0.05Ω) | Max. 50mΩ | 23±5°C, Immersion cleaning, 5±0.5min Solvent : 2-propanol |
| Bend strength of the end face plating | ± (1.0%+0.05Ω) Without mechanical damage such as breaks. | Max. 50mΩ | - |

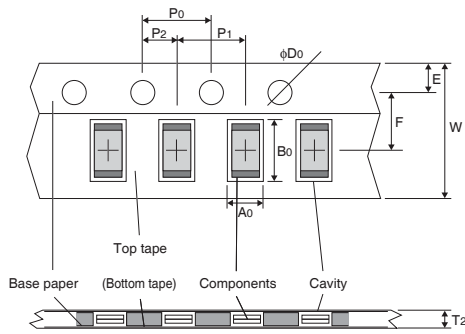
Compliance Standard(s) : IEC60115-8
JISC 5201-8

●Technical data

| Parameter | Unit | MCR006 YZP | MCR01 MZP / PZPI | MCR03 EZP / MZP / PZPI | MCR10 EZP | MCR18 EZP | MCR25 JZH | MCR50 JZH | MCR100 JZH |
|-----------------------|-------|---------------|---------------------|---------------------------|--------------|--------------|--------------|--------------|---------------|
| Insulation resistance | MΩ | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Failure rate | Fit | 0.0016 | 0.0002 | 0.0009 | 0.0015 | 0.0018 | 0.0203 | 0.0201 | 0.0586 |
| Weight | mg/pc | 0.157 | 0.70 | 2.12 | 5.03 | 9.46 | 16.5 | 25.8 | 42.0 |

●Tape Dimensions

■ Paper Tape

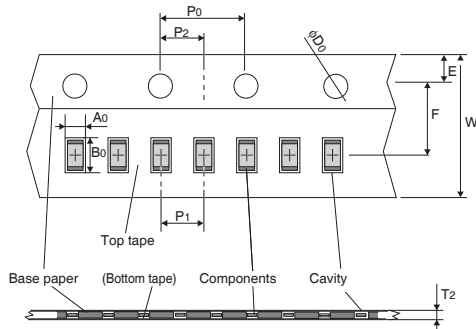


(Unit : mm)

| 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 | 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 |
|----------|-----------|-----------------------------------|---------|----------|----------|---------|
| 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 | EZP | φ1.5 ^{+0.1} ₀ | 4.0±0.1 | 4.0±0.1 | 2.0±0.05 | Max 1.1 |
| MCR18 | EZP | φ1.5 ^{+0.1} ₀ | 4.0±0.1 | 4.0±0.1 | 2.0±0.05 | Max 1.1 |

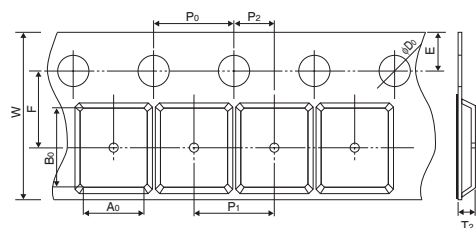
■ Paper Tape (Narrow pitch taping)



(Unit : mm)

| Part No. | Type Code | W | F | E | A0 | B0 |
|----------|-----------|-----------------------------------|----------|----------|----------|---------|
| MCR03 | MZP | 8.0±0.3 | 3.5±0.05 | 1.75±0.1 | 1.1±0.1 | 1.9±0.1 |
| | | D0 | P0 | P1 | P2 | T2 |
| | | φ1.5 ^{+0.1} ₀ | 4.0±0.1 | 2.0±0.5 | 2.0±0.05 | Max 1.1 |

■ Embossed Tape

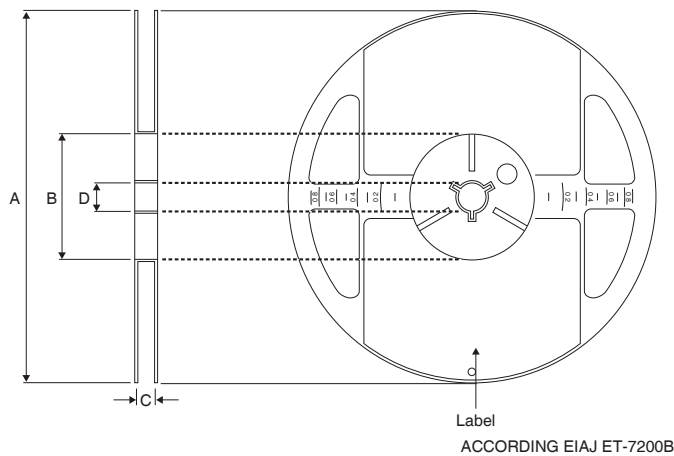


(Unit : mm)

| 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 |

●Reel Dimensions

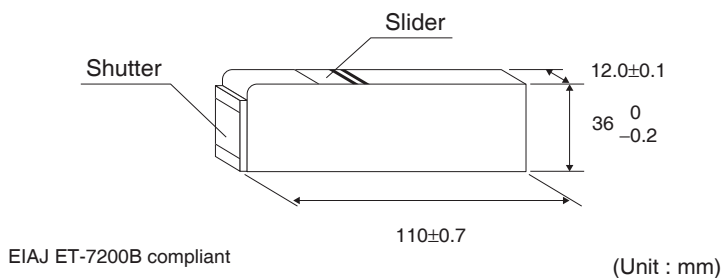


(Unit : mm)

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

●Bulk case Dimensions

- MCR01PZPI
- MCR03PZPI



Notes

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