		Spec. No.: Date:	RMC-K-HTS-0008/ 2 2022. 8. 18
	Data	sheet	
	IXED THICK FILM ECTANGULAR TY		RS;
Style: R	MC06,10,16,20,32	2,35,50,63	
		tive Grade 00 qualified	
		PLIANCE ITEM d Antimony Free	
Note:	 Stock conditions Temperature: +5°C ~ +35°C Relative humidity: 25% ~ 7 The period of guarantee: W S Product specification con any time without notice If you have any questions agreement is necessary 	5% Vithin 2 year from shipment Solderability shall be satisfi Itained in this data sheet s or a Purchasing Specif	ed. are subject to change a ication for any quality
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Drawing No: RMC-K-HTS-0008

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Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC06,10,16,20,32,35,50,63 Automotive Grade F

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1. Scope

1.1 This specification covers the detail requirements for fixed thick film chip resistors; rectangular type, style of RMC06, 10, 16, 20,32, 35,50.63.

1.2 Applicable documents

JIS C 5201-1: 2011, IEC60115-1: 2008, AEC-Q200 Rev.D

1.3 For Automotive Grade

- AEC-Q200 qualified (Grade 0)

- Managed and manufactured under the exclusive manufacturing process for automotive.

2. Classification

(Example)

Type designation shall be the following form.

1 Fixed thick film chip resistors; rectangular type —

 $2\ \text{Rated}$ dissipation and / or dimension

3 Temperature coefficient of resistance

К	±100×10 ⁻⁶ / °C
–(Dash)	Standard

- Style

4 Rated resistance

123	E24 Series, 3 digit,	Ex. 123> 12kΩ,
1000	E96 Series, 4 digit,	Ex. 1000>100Ω
		1022> 10.2kΩ
JP	Chip jumper	

5 Tolerance on rated resistance

D	±0.5%
F	±1%
G	±2%
J	±5%

6 Packaging form 1. Scope

В	Bulk (loose package)	
PA	Press pocket taping	
TH	Banar taning	
TP	Paper taping	
TE	Embossed taping	

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Title:

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE

RMC06,10,16,20,32,35,50,63 Automotive Grade

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3. Rating

3.1 The ratings shall be in accordance with Table-1.

			Table-	1(1)		
Style	Rated dissipation (W)	Temperature coefficient of resistance (10 ⁻⁶ / °C)		Rated resistance range (Ω)	Preferred number series for resistors	Tolerance on rated resistance
			±200	10~1M		D(±0.5%)
			<u>+200</u> +350~-100	10~10M 4.02~9.76	E24, 96	F(±1%)
RMC06	0.05	Standard	+600~-200	1~3.92		
			±200	10~1M		G(±2%)
			±200	10~10M	E24	
			+350~100	4.02~9.76		J(±5%)
			+600~-200	1~3.92		
		K	±100	10~1M		D(±0.5%)
		Standard	±200	1.02M~3.3M		D(±0.070)
		K	±100	10~1M	E24, 96	F(±1%)
RMC10	0.1		±200	1.02M~10M		
		Standard		1~9.76		
		Stanuaru	±200	10~3.3M	E24	G(±2%)
			±200	1~10M		J(±5%)
RMC16 0.1	к	±100	10~3.3M		D(±0.5%)	
			±100	10~10M	E24, 96 E24	F(±1%)
	0.1	0.1 Standard	±200	1~9.76		
			±200	1~10M		G(±2%)
			±200	1~22M		J(±5%)
		K	±100	10~2.2M		D(±0.5%)
		Standard	±200	2.21M~3.3M		
		K	±100	10~2.2M	E24,96	
RMC20	0.125	-		2.21M~10M		F(±1%)
		0	±200	1~9.76		
		Standard	±200	1~10M	504	G(±2%)
			±200	1~22M	E24	J(±5%)
		К	±100	10~1M	E24,96	D(±0.5%)
			±100			
RMC32 0.25		+200	1.02M~10M	,	F(±1%)	
	0.20	Standard		1~9.76		
			±200	1~10M	E24	G(±2%)
			±200	1~24M		J(±5%)
		К	±100	10~9.76k	504.00	D(±0.5%)
RMC35	0.5		<u>+200</u>	1~9.76	E24,96	F(±1%)
	0.0	Standard	±200	10~9.1k		G(±2%)
		Standard	±200	1~9.1k	E24	J(±5%)

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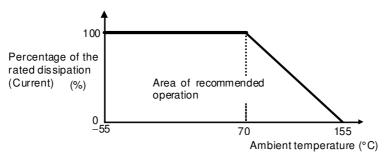
Table-1(2)							
Style	Rated dissipation (W)	Temperature coefficient of resistance (10 ⁻⁶ / °C)		Rated resistance range (Ω)	Preferred number series for resistors	Tolerance on rated resistance	
		K	±100	10~9.76k	E24,96	F(±1%)	
RMC50			±200	1~9.76	624,90	F(±176)	
	0.75	Standard	±200	10~9.1k	E24	G(±2%)	
			±200	1~9.1k		J(±5%)	
		К		10~9.76k	E24,96	E(+10/)	
BMC63 1.0	10	±200	1~9.76	⊏24,90	F(±1%)		
	1.0	1.0 Standard	±200	10~9.1k	F04	G(±2%)	
			±200	±200	1~9.1k	E24	J(±5%)

Style	Limiting element voltage (V)	lsolation voltage (V)	Category temperature range (°C)
RMC06	25	50	
RMC10	50	100	
RMC16	75	100	
RMC20	150		
RMC32		-55~+	-55~+155
RMC35	000	500	
RMC50	200		
RMC63			

Note. Rated current of chip jumper: RMC06, RMC10: 1(A), RMC16, 20, 32, 35, 50, 63: 2(A) Note. Resistance value of chip jumper: $50 \text{ m}\Omega \text{ max}$.

3.2 Derating

The derated values of dissipation (or current rating in case of chip jumper) at temperature in excess of 70 °C shall be as indicated by the following curve.



Figure–1 Derating curve

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FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC06,10,16,20,32,35,50,63 Automotive Grade

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3.3 Rated voltage

Title:

d. c. or a. c. r. m. s. voltage calculated from the square root of the product of the rated resistance and the rated dissipation.

E =
$$\sqrt{P \cdot R}$$

E : Rated voltage (V) P : Rated dissipation (W)

R : Rated resistance (Ω)

Limiting element voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

At high value of resistance, the rated voltage may not be applicable.

4. Packaging form

The standard packaging form shall be in accordance with Table-2.

	Table-2					
Symbol	Pa	ckaging form	Standard packaging quantity / units	Application		
В	Bulk (loose package)		1,000 pcs.	RMC06,10,16,20,32,35, 50. 63		
PA	Press pocket taping (paper taping)	8mm width, 2mm pitches	15,000 pcs.	RMC06		
TH	Paper taping	8mm width, 2mm pitches	10,000 pcs.	RMC10		
TP	Paper taping 8mm width, 4mm pitches		5,000 pcs.	RMC16, 20, 32		
TE	Embossed taping	8mm width, 4mm pitches 12mm width, 4mm pitches	4,000 pcs.	RMC35 RMC50, 63		

5. Dimensions

5.1 The resistor shall be of the design and physical dimensions in accordance with Figure-2 and Table-3.

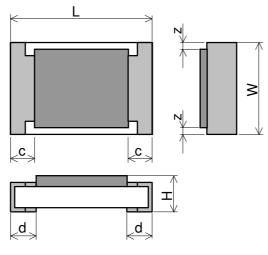


Figure-2

			•				
		Uni	t:mm				
Style	L	W	Н	С	d	Z	
RMC06	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05		
RMC10	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25_{-0.10}^{+0.05}$		
RMC16	1.6±0.1	0.8 ^{+0.15} -0.05	0.45±0.10	0.3±0.1	0.3±0.1		
RMC20	2.0±0.1	1.25±0.10	0.55±0.10	0.4±0.2	0.4±0.2		
RMC32	3.1±0.1	1.6±0.15	0.55±0.10	0.5±0.25	0.5±0.25	0.05~0.3	
RMC35	3.1±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25	0.05~0.3	
RMC50	5.0±0.15	2.5±0.15	0.55±0.15	0.6±0.2	0.6±0.2	0.05~0.35]
RMC63	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.2	0.6±0.2	0.05~0.35	

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Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC06,10,16,20,32,35,50,63 Automotive Grade

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5.2 Net weight (Reference)

Style	Net weight(mg)
RMC06	0.16
RMC10	0.6
RMC16	2
RMC20	5
RMC32	9
RMC35	16
RMC50	25
RMC63	40

6. Marking

The Rated resistance of RMC 06 and 10 should not be marked.

6.1 RMC20,32,35.,50,63

The nominal resistance shall be marked in 3 digits or 4 digits and marked on over coat side.

• E24 series: 3 digits, E96 series: 4 digits

In case of the resistance value that E96 overlaps with E24, It is marked by either.

Marking example	Contents	Application
123	$12 \times 10^3 \ [\Omega] \rightarrow 12 \ [k\Omega]$	RMC20,32,35,50,63
2R2	2.2 [Ω]	Less than 10Ω of RMC32,35,50,63
2.2	2.2 [Ω]	Less than 10Ω of RMC20
5623	$562 \times 10^{3} [\Omega] \rightarrow 562[k\Omega]$	RMC20,32,35,50,63
12R7	12.7 [Ω]	RMC20,32,35,50,63

6.2 RMC16

The nominal resistance shall be marked in 3 digits and marked on over coat side.

No marking in the E96 series.

Marking example	Contents	Application
123	$12 \times 10^3 \ [\Omega] \rightarrow 12 \ [k\Omega]$	E24
2R2	2.2 [Ω]	E24
No marking	$102 \times 10^2 [\Omega] \rightarrow 10.2 [k\Omega]$	E96
No marking	$332 \times 10^{-1} [\Omega] \rightarrow 33.2 [\Omega]$	E96

6.3 Marking example of Jumper Chip

Marking example	Contents	Application
0	п	RMC16,20,32
000	JP	RMC35,50,63

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FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC06,10,16,20,32,35,50,63 Automotive Grade

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7. Performance

7.1 The standard condition for tests shall be in accordance with Sub-clause 4.2, JIS C 5201-1: 2011.

7.2 The performance shall be satisfied in Table-4.

	The periormance shall be salish	Table-4(1)			
No	Test items	Condition of test	Performance requirements		
1	High temperature exposure AEC Q200 - No.3	MIL-STD-202 Method 108 Ambient temperature:155±2°C, Condition: Without load, Duration: 1000 ⁺⁴⁸ / ₀ h Interval measurements: 250 h and 500 h	Resistor: RMC06: Δ R/R: Within ±(3%+0.1 Ω) Others: Δ R/R: Within ±(2%+0.1 Ω) Chip jumper: 50m Ω max. No visible damage		
2	Temperature cycling AEC Q200 - No.4	JESD22 Method JA-104 Temperature: -55±3°C / 125±2°C, Dwell time: 30min maximum at each temp. Transition time: 1 min. max. Number of cycles: 1000 cycles. Interval measurements: 250 cy and 500 cy	Resistor: RMC06: Δ R/R: Within ±(3%+0.1 Ω) Others: Δ R/R: Within ±(1%+0.05 Ω) Chip jumper: 50m Ω max. No visible damage		
3	Bias humidity AEC Q200 – No.7	 MIL-STD-202 Method 103 Condition: 85°C & 85% R.H. Test power: 10% of rated power shall be applied for continuously. Duration: 1,000 ⁺⁴⁸₀ h Interval measurements: 250 h and 500 h 	Resistor: RMC06: Δ R/R: Within ±(3%+0.1 Ω) Others: Δ R/R: Within ±(2%+0.1 Ω) Chip jumper: 50m Ω max. No visible damage		
4	Operational life AEC Q200 – No.8	 MIL-STD-202 Method 108 Ambient temperature: 125±2°C The applied voltage shall be the voltage to be calculated at 35% of rated dissipation or the limiting element voltage whichever is the smaller. Condition: The voltage shall be applied for continuously. Duration: 1000 ⁺⁴⁸/₀ h Interval measurements: 250 h and 500 h 	Resistor: RMC06: Δ R/R: Within ±(3%+0.1 Ω) Others: Δ R/R: Within ±(2%+0.1 Ω) Chip jumper: 50m Ω max. No visible damage		
5	External Visual AEC Q200 – No.9	MIL-STD-883 Method 2009	Inspect device construction, marking and workmanship.		
6	Dimensions AEC Q200 – No.10	JESD22 Method JB-100	As in Table-3		
7	Resistance to Solvents AEC Q200 – No.12	MIL-STD-202 Method 215 Solvent: 2–propanol at 25°C Immersion time: 3 min Brush: 10 times brushing Immersion and brush cycle: 3cycle	Resistor: $\Delta R/R$: Within ±(1%+0.05 Ω) Chip jumper: 50m Ω max. No visible damage		
8	Mechanical Shock AEC Q200 – No.13	MIL-STD-202 Method 213 Waveform: half sine, Peak value100G, Normal duration 6ms Condition: XX'YY'ZZ', 10times each	Resistor: $\Delta R/R$: Within $\pm (0.5\%+0.05\Omega)$ Chip jumper: $50m\Omega$ max. No visible damage		

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	Table-4(2)					
No	Test items	Condition of test	Performance requirements			
9	Vibration AEC Q200 – No.14	MIL-STD-202 Method 204 Peak acceleration and Sweep time: 5 g's for 20 min , Frequency 10Hz to 2000Hz, Condition: 12 cycles each of 3 orientations	Resistor: $\Delta R/R$: Within $\pm (0.5\%+0.05\Omega)$ Chip jumper: $50m\Omega$ max. No visible damage			
10	Resistance to soldering heat AEC Q200 - No.15	MIL-STD-202 Method 210 Solder bath temp: 260±5°C Immersed time: 10±1s	Resistor: $\Delta R/R$: Within ±(0.5%+0.05 Ω) Chip jumper: 50m Ω max. No visible damage			
11	ESD test AEC Q200 – No.17	AEC-Q200-002 Human body model, 2 Kohm, 150 pF, Test voltage: RMC16,20,32,35,50,63 2000V RMC10 800V RMC06: 500V	Resistor: $\Delta R/R$: Within $\pm (5\%+0.1\Omega)$ No visible damage			
12	Solderability AEC Q200 – No.18	J-STD-002 a) Bake the sample for 155 °C dwell time 4h / solder dipping 235°C/5s. Solder: Sn96.5-Ag3-Cu0.5 b) Category 3, Solder dipping 215°C/5s. Solder: Sn63Pb37 c) Category 3, Solder dipping 260°C/30s.	The surface of terminal immersed shall be min. of 95% covered with a new coating of solder.			
13	Electrical Characterization AEC Q200 - No.19	1. D.C. Resistance 2. Temperature Coefficient of Resistance -55 °C / +20 °C +20 °C / +155 °C	 The resistance value shall correspond with the rated resistance taking into account the specified tolerance. As in Table–1 			
14	Flammability AEC Q200 – No.20	UL-94	V-0 or V-1 are acceptable			
15	Bending strength AEC Q200 – No.21	AEC-Q200-005 Bending value2mm Holding time: 60sec.	Resistor: $\Delta R/R$: Within ±(0.5%+0.05 Ω) Chip jumper: 50m Ω max. No visible damage			
16	Adhesion AEC Q200 – No.22	AEC-Q200-006 Pressurizing force: RMC20,32,35,50,63 17.7N RMC10,16 10N RMC06: 3N Test time: 60±1s.	Resistor: $\Delta R/R$: Within ±(0.5%+0.05 Ω) Chip jumper: 50m Ω max. No visible damage			
17	Flame retardance AEC Q200 – No.24	AEC-Q200-001 Test conditions: 9VDC to 32VDC Each 1h This test applies to rated voltages of 32V and above.	The following FAILURE CRITERIA does not occur. FAILURE CRITERIA - Electrically open a) A flame over 3.0 seconds duration b) An explosion c) A temperature above 350°C sustained for over 10 s			

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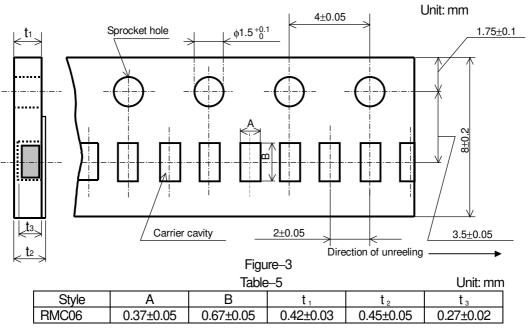
8. Taping

8.1 Applicable documents JIS C 0806–3: 2014, EIAJ ET–7200C: 2010

8.2 Taping dimensions

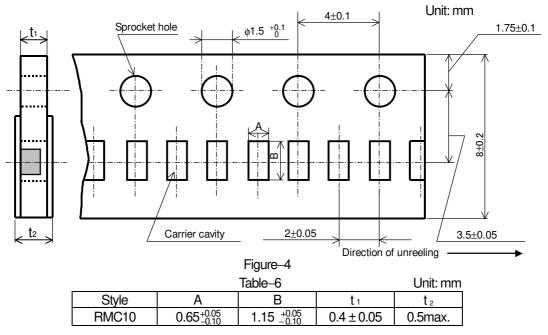
8.2.1 Press pocket taping (Paper taping, 8mm width, 2mm pitches)

Taping dimensions shall be in accordance with Figure-3 and Table-5.



8.2.2 Paper taping (8mm width, 2mm pitches)

Taping dimensions shall be in accordance with Figure -4 and Table-6.



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8.2.3 Paper taping (8mm width, 4mm pitches)

Taping dimensions shall be in accordance with Figure-5 and Table-7.

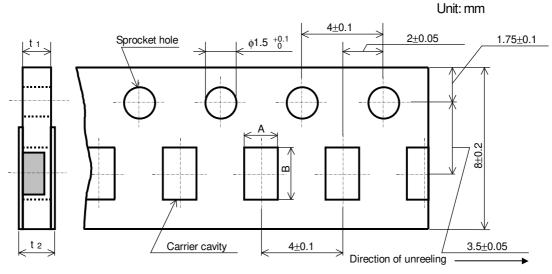


Figure-5

Table-7				Unit: mm
Style	A	В	t 1	t 2
RMC16	1.15±0.15	1.9±0.2	0.6±0.1	0.8max.
RMC20	1.65±0.15	2.5±0.2	0.8±0.1	1.0max.
RMC32	2.00±0.15	3.6±0.2	0.0±0.1	T.UMAX.

8.2.4 Embossed taping dimensions shall be in accordance with Figure-6 and Table-8.

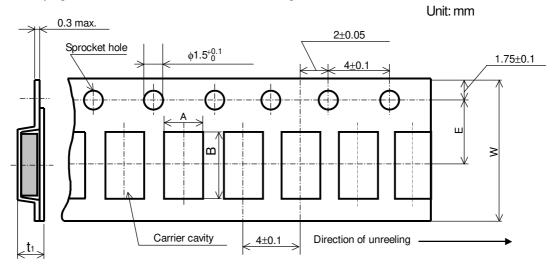


Figure-6

Table-8				Unit: mm	
Style	A	В	W	E	t1
RMC35	2.85±0.20	3.5±0.2	8.0±0.3	3.5±0.05	1.0±0.2
RMC50	3.1±0.2	5.5±0.2	12.0±0.3	5.5±0.05	1.1±0.15
RMC63	3.6±0.2	6.9±0.2	12.0±0.3	5.5±0.05	1.1±0.15

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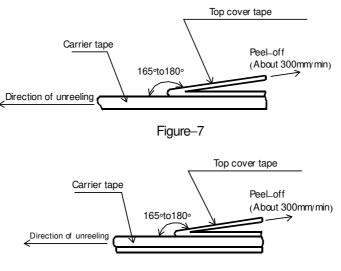
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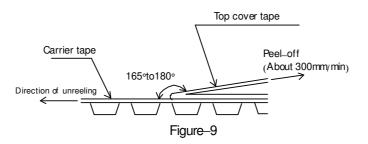
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Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC06,10,16,20,32,35,50,63 Automotive Grade

- 1). The cover tapes shall not cover the sprocket holes.
- 2). Tapes in adjacent layers shall not stick together in the packing.
- 3). Components shall not stick to the carrier tape or to the cover tape.
- 4). Pitch tolerance over any 10 pitches ±0.2mm.
- 5). The peel strength of the top cover tape shall be with in 0.1N to 0.5N on the test method as shown in the following RMC06: Figure–7, RMC10, 16, 20, 32: Figure–8, RMC35,50.63: Figure–9.
- 6). When the tape is bent with the minimum radius for 25 mm, the tape shall not be damaged and the components shall maintain their position and orientation in the tape.
- 7). In no case shall there be two or more consecutive components missing. The maximum number of missing components shall be one or 0.1%, whichever is greater.
- 8). The resistors shall be faced to upward at the over coating side in the carrier cavity.







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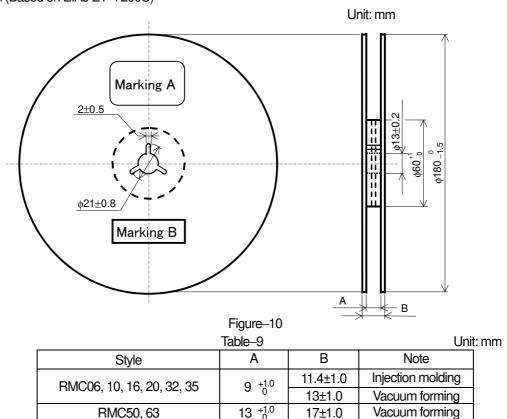
FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC06,10,16,20,32,35,50,63 Automotive Grade

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8.3 Reel dimension

Title:

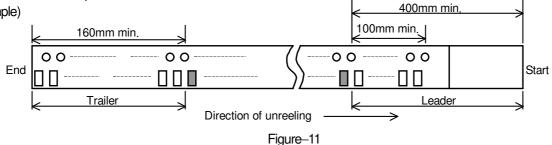
Reel dimensions shall be in accordance with the following Figure–10 and Table–9. Plastic reel (Based on EIAJ ET–7200C)



Note: Marking label shall be marked on a place of Marking A or two place of marking A and B.

8.4 Leader and trailer tape.

(Example)



9. Marking on package

The label of a minimum package shall be legibly marked with follows.

9.1 Marking A

(1) Classification

(Style, Temperature coefficient of resistance, Rated resistance, Tolerance on rated resistance, Packaging form)

(2) Quantity (3) Lot number (4) Manufacturer's name or trade mark (5) Others

9.2 Marking B (KAMAYA Control label)

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 CR-05FL7--698K
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 CR-12JP4--680R
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 M55342K06B14E0RS6

 M55342K06B1E78RS3
 M55342K06B24E9RS6
 M55342K06B6E19RWL
 M55342K06B6E81RS3
 M55342M05B200DRWB

 M55342M06B4K70MS3
 MC0603-511-JTW
 742C083750JTR
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