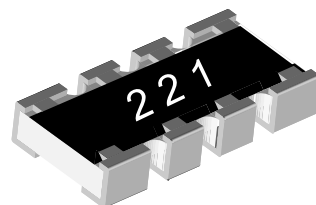


Array Chip Resistor

4 Element 0402 Convex Types

Features

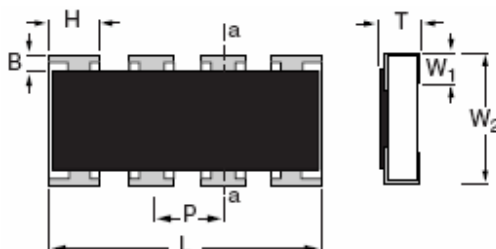
- Convex Termination
- Less board space than individual chip resistors
- Cost reduction efficiency by eliminating mounter operations
- Both flow and reflow soldering are applicable
- RoHS Compliant



Applications

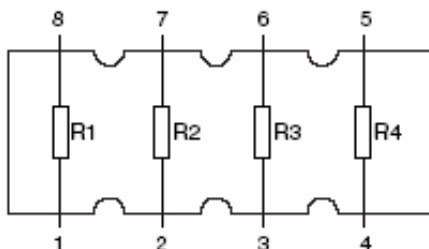
- For laptop and notebook computer, memory module and telecommunication equipment

Dimensions (in mm)



Type	Size	L	W2	B	H	P	T	W1
RP104PJxxx	0402X4R	2.00±0.10	1.00±0.15	0.22±0.15	0.30±0.10	0.50±0.05	0.45±0.10	0.22±0.15

Circuit Diagrams



Thick Film Array Chip Resistor

RP104PJxxx Series

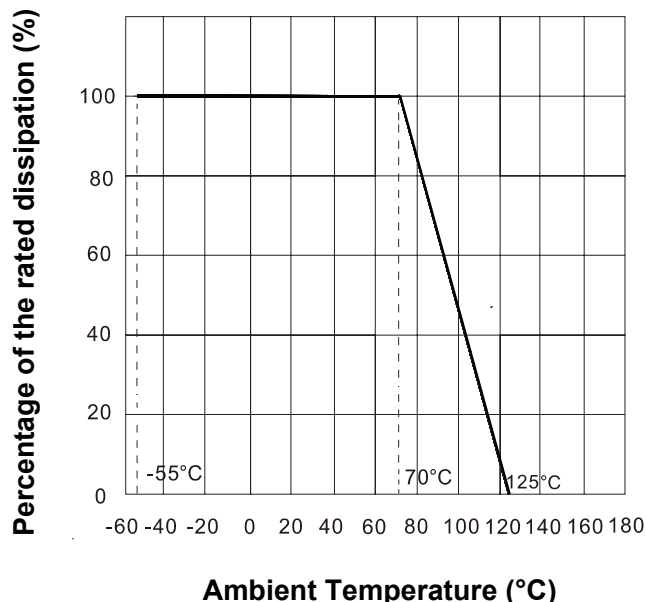
Maximum Ratings

Power Rating	Working Voltage(Max)	Overload Voltage(Max)	Jumper	Jumper Rated Current	TCR	Resistance Range	Rated Working Temp.
1/16W	25V	50V	<50mΩ	1A	±200 ppm/°C	10Ω~1MΩ	-55~+125°C

Remark :Resistance range & tolerance are standard values; any other values are available upon request.

Power Derating Curve

For resistors operate in the ambient temperature over 70°C, loading power ratio will derate in accordance with following curve.



Thick Film Array Chip Resistor

RP104PJxxx Series

Performance Characteristics

Test Item	Test Method	Test Condition	Requirement		
			±1%	±5%	Jumper
Temperature coefficient of resistance(T.C.R.)	JIS C 5201 4.8 IEC 60115-1 4.8	-55°C - +125/+155°C 20°C is the reference temperature	Within the specification		
Short time overload	JIS C 5201 4.13 IEC 60115-1 4.13	2.5 times RCWV or Max. overload voltage for 5 seconds	±(1.0%+0.05Ω)	±(2.0%+0.05Ω)	<50mΩ
Insulation resistance	JIS C 5201 4.6 IEC 60115-1 4.6	Max. overload voltage for 1 minute	≧ 10G		
Voltage proof	JIS C 5201 4.7 IEC 60115-1 4.7	1.42 times RCWV (note) (RMS) for 1 minute	No breakdown or flashover		
Substrate bending test	JIS C 5201 4.33 IEC 60115-1 4.33	Bending once for 5 seconds 2010, 2512 size: 2mm Other size: 3mm	±(1.0%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ
Resistance to soldering heat	JIS C 5201 4.18 IEC 60115-1 4.18	260±5°C for 10 seconds	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ
Leaching	JIS C 5201 4.18 IEC 60115-1 4.18	260±5°C for 60 seconds	No leaching		
Solderability	JIS C 5201 4.17 IEC 60115-1 4.17	245±5°C for 3 seconds	>95% Coverage		
Endurance at upper category temperature	JIS C 5201 4.23 IEC 60115-1 2.23.2	At +125/+155°C for 1000hrs	±(1.0%+0.05Ω)	±(1.5%+0.10Ω)	<50mΩ
Rapid change of temperature	JIS C 5201 4.19 IEC 60115-1 4.19	-55°C to +125/+155°C, 5 cycles	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ
Damp heat with load	JIS 5201 4.24	40±2°C, 90-95% R.H. or Max. working voltage for 1000 hrs with 1.5hrs "ON" and 0.5 hr "OFF"	±(2.0%+0.10Ω)	±(3.0%+0.10Ω)	<100mΩ
Endurance	JIS C 5201 4.25 IEC 60115-1 4.25.1	70±2°C, Max. working voltage for 1000 hrs with 1.5hrs "ON" and 0.5 hr "OFF"	±(2.0%+0.10Ω)	±(3.0%+0.10Ω)	<100mΩ

Note:

RCWV : Rated continuous working voltage= $\sqrt{\text{Rated power} \times \text{Resistance value}}$

Thick Film Array Chip Resistor

RP104PJxxx Series

Marking Explanation

- (1) E24 series product is with 3 digits marking, the first two digits are significant figures, and third digit is number of zeros to follow. Letter "R" is as decimal point. Letter "0" for jumper.
- (2) E96 series (non-including E24 series) product is with 4 digits marking, first three digits are significant figures, and fourth digit is number of zeros. Letter "R" is as decimal point. Letter "0" for jumper.

Note: E24 series product with 4 digits marking is upon customer request.

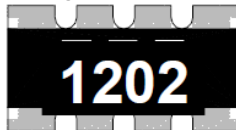
Examples:

E-24 Series
3 digits indication



$$683 = 68 \times 10^3 \Omega \\ = 68000 \Omega = 10K\Omega$$

E-96 Series
4 digits indication



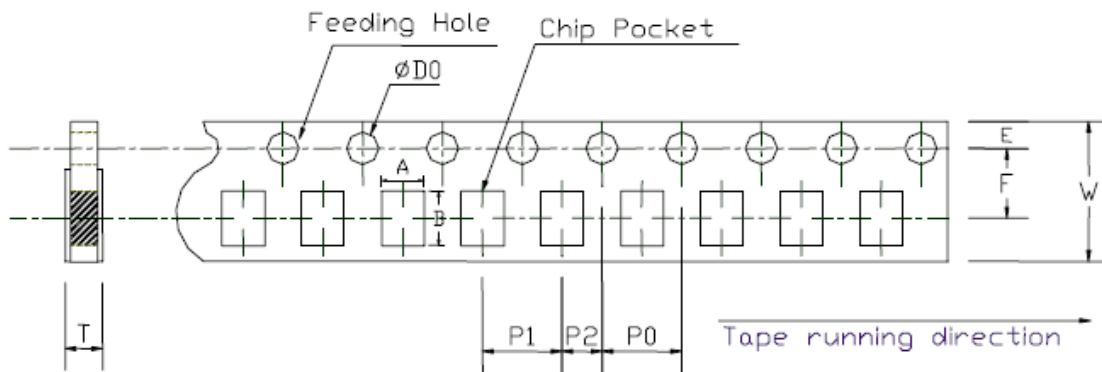
$$1202 = 120 \times 10^2 \Omega \\ = 12000 \Omega = 12K\Omega$$

E-24 Series
Jumper



Packing Information:

Carrier Tape Dimensions (in mm)

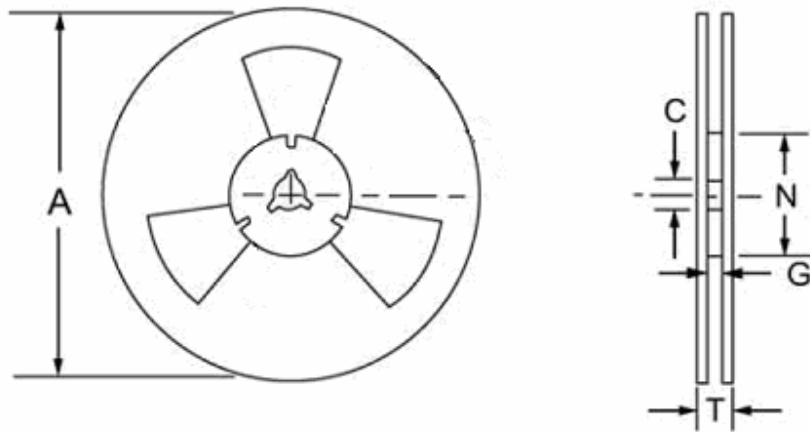


Dimension	A	B	W	E	F	P0	P1	P2	$\phi D0$	T
RP104PJxxx	1.20±0.10	2.20±0.10	8.0±0.2	1.75±0.10	3.5±0.05	4.0±0.10	2.0±0.05	2.0±0.05	1.5+0.1/-0	0.70±0.10

Thick Film Array Chip Resistor

RP104PJxxx Series

Reel Dimensions (in mm)



Style	Packing	Tape width	Reel Diameter	Φ A	Φ N	Φ C	G	T
RP104PJxxx	Paper	8 mm	7 inch	180+0/-3	60+1/-0	13.0±0.2	9.0±0.3	11.4±1
			10 inch	254±1	100±1	13.0±0.2	9.5±0.5	13.5±1
			13 inch	330±1	100±1	13.0±0.2	9.5±0.5	13.5±1

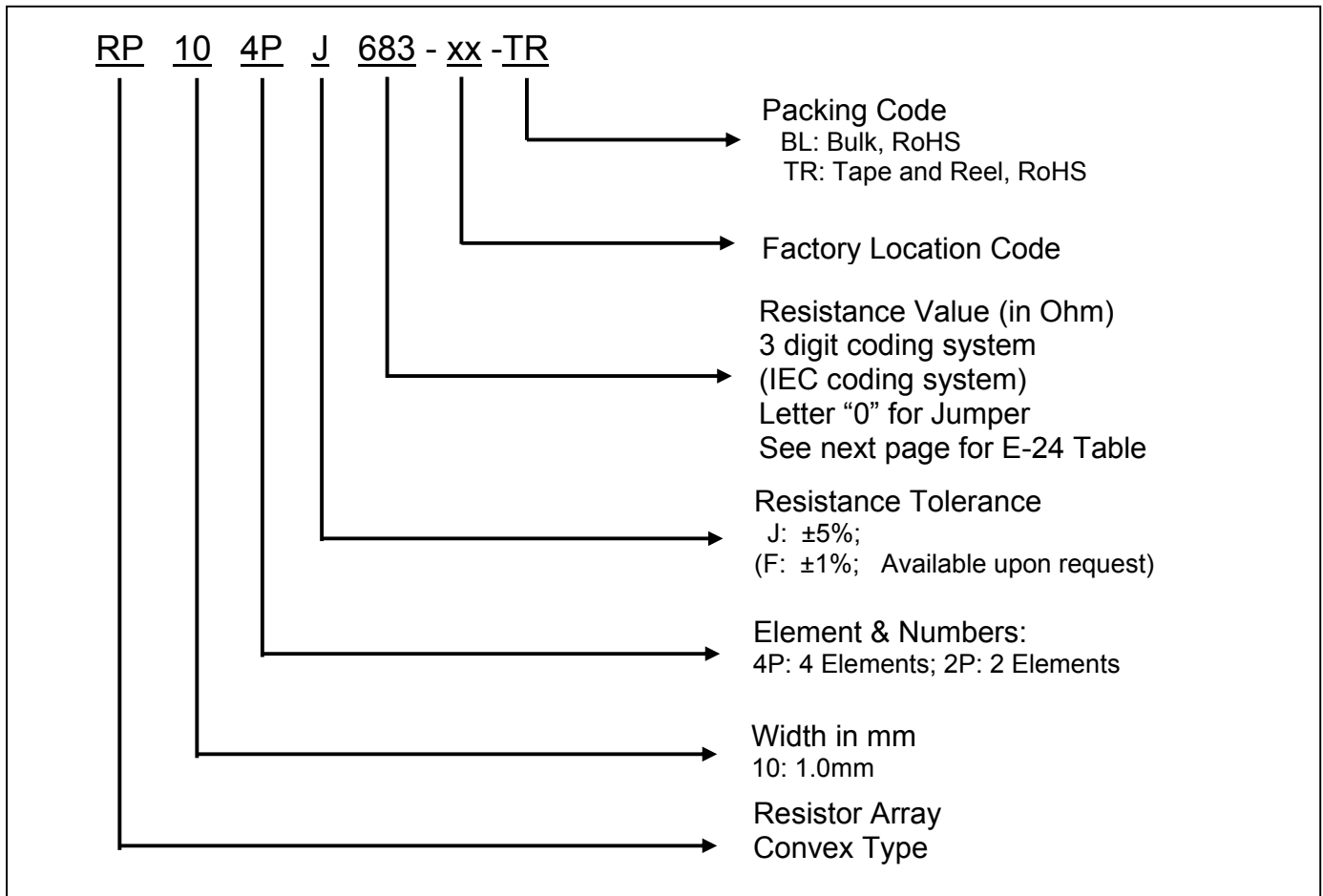
Packing Quantity Information:

Type (unit: piece)	Paper Tape			Bulk Cassette
	7"(178mm)	10"(254mm)	13"(330mm)	
RP104PJxxx	10,000	20,000	40,000	10,000

Thick Film Array Chip Resistor

RP104PJxxx Series

How to Order



Thick Film Array Chip Resistor

RP104PJxxx Series

E-24 Series of Resistance Value

xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω
100	10	110	11	120	12	130	13	150	15	160	16	180	18
200	20	220	22	240	24	270	27	300	30	330	33	360	36
390	39	430	43	470	47	510	51	560	56	620	62	680	68
750	75	820	82	910	91	101	100	111	110	121	120	131	130
151	150	161	160	181	180	201	200	221	220	241	240	271	270
301	300	331	330	361	360	391	390	431	430	471	470	511	510
561	560	621	620	681	680	751	750	821	820	911	910	102	1K
112	1.1K	122	1.2K	132	1.3K	152	1.5K	162	1.6K	182	1.8K	202	2.0K
222	2.2K	242	2.4K	272	2.7K	302	3.0K	332	3.3K	362	3.6K	392	3.9K
432	4.3K	472	4.7K	512	5.1K	562	5.6K	622	6.2K	682	6.8K	752	7.5K
822	8.2K	912	9.1K	103	10K	113	11K	123	12K	133	13K	153	15K
163	16K	183	18K	203	20K	223	22K	243	24K	273	27K	303	30K
333	33K	363	36K	393	39K	433	43K	473	47K	513	51K	563	56K
623	62K	683	68K	753	75K	823	82K	913	91K	104	100K	114	110K
124	120K	134	130K	154	150K	164	160K	184	180K	204	200K	224	220K
244	240K	274	270K	304	300K	334	330K	364	360K	394	390K	434	430K
474	470K	514	510K	564	560K	624	620K	684	680K	754	750K	824	820K
914	910K	105	1.0M										

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