



SS-208 R7 AHA 4/15/14

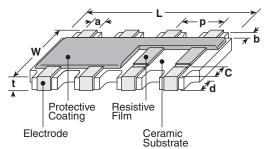
Chip Networks Resistors Type CN_A

ISO 9001:2008 TS-16949

1. Features

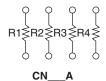
- Manufactured to type RK73 standards
- Less board space than individual chips
- Isolated resistor elements
- Convex terminations with scalloped corners
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: CN1J4A only

2. Dimensions



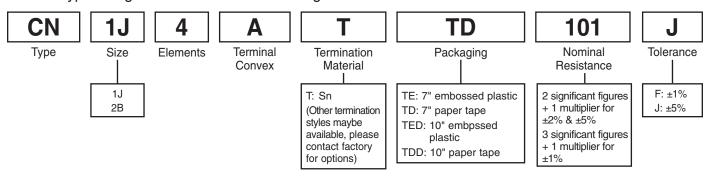
ſ	Size	Dimensions inches (mm)									
Code 1J4A		L W		С	d t		а	b	p (ref.)		
			.063±.006 (1.6±0.15)						.031 (0.8)		
	2B4A	0.2±.008 (5.1±0.2)	.122±.008 (3.1±0.2)	.020±.008 (0.5±0.2)					.050 (1.27)		

CN___A Convex/Scalloped Corner



3. Type Designation

The type designation shall be the following form:



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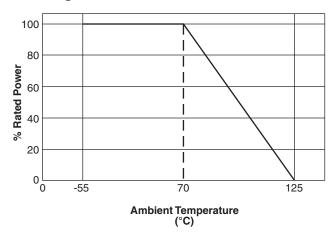
4. Standard Applications

Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C) Max.	Resistance Range E-96 (F±1%)	Resistance Range E-24 (J±5%)	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temperature Range
CN1J4A	1/16W (.063W)	±200:R≥10Ω	10 - 100kΩ	1Ω - 1ΜΩ	50V	100V	-55°C to +125°C
CN2B4A	1/8W (.125W)	±400:R<10Ω		10Ω - 1ΜΩ	200V	400V	-55 0 10 +125 0

5. Environmental Applications

For temperature in excess of 70°C, the load shall be derated in accordance with the following figure.

Derating Curve



5.1 Voltage Rating

Resistors shall have a rated direct current (DC) continuous working voltage or approximate sine wave root mean square (R.M.S.) continuous working voltage at commercial line frequency and wave form corresponding the power rating as determined from the following formula:

Where, E = Rated voltage (V) $E = \sqrt{P \times R}$ P = Power rating (W) $R = Nominal resistance (\Omega)$

However, if the rated voltage thus obtained surpasses the specified maximum working voltage, it shall be considered the rated voltage.

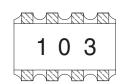


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6. Body Color and Marking

CN_A: Body Color: Black Marking Color: White

Nominal resistance at 3-digit numbers



3-digit numbers

The first and the second numbers shall be shown 2 effective numbers, and the third number shall be shown a multiple of 10.

Example: $103 \longrightarrow 10,000 \longrightarrow 10k$ $472 \longrightarrow 4,700 \longrightarrow 4.7k$

7. Performance

	Requireme	ent ∆ R ±%					
Parameter	Limit Typical		Test Method				
Resistance	Within specified tolerance	_	25°C				
T.C.R.	Within specified T.C.R.	_	+25°C/-55°C, +25°C/+125°C				
Overload (Short time)	±2.0%	±0.5%	Rated voltage x 2.5 for 5 seconds				
Resistance to Solder Heat	±1.0%	±0.2%	260°C ± 5°C, 10 seconds ± 1 second				
Rapid Change of Temperature	±1.0%	±0.1%	-55°C (30 minutes), +125°C (30 minutes), 5 cycles				
Moisture Resistance	±5.0%	±1.0%	40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle				
Endurance at 70°C	±5.0%	±0.5%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle				
High Temperature Exposure ±1.0% ±0.2%			+125°C, 100 hours				



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8. Taping

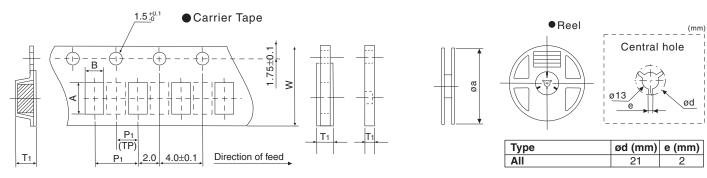
Tape material and quantity/reel

Tape material	Tape width	Quantity/Reel (pcs.)			
Paper	.315 in. (8 mm)	5,000			

9. Packaging Specifications

9.1 Paper Tape Dimensions

		Component Size (mm)			Carrier Qu	Quantity/		Taping (mm)				
Ту	/pe	L	w	т	Tape	Reel (Pieces)	Α	В	w	P1	T1	Reel Size
	1J4A _A	3.20	0 1.6	0.6/0.5	TD	5000	3.5±0.1	2.0±0.1	8.0±0.2	4.0±0.1	0.75+0.2/-0/ 0.6+0.2/-0	178
CN_A					TDD	10000	1.9±0.1	1.1±0.1	8.0±0.2	4.0±0.1	0.75+0.2/-0/ 0.6+0.2/-0	255
	2B4	5.08	5.08 3.2	3.2 0.6	TE	4000	5.4±0.2	3.4±0.2	12.0±0.1	4.0±0.1	1±0.15	178
		2D4	5.08	3.2	0.6	TED	10000	5.4±0.2	3.4±0.2	12.0±0.1	4.0±0.1	1±0.15



(Notes) Dotted lines are applicable to only "TP" and "TB."

(Notes) Reel holes, shapes and design are examples

10. Reel Marking **Lot Number** The reel must be marked as follows: 53 11 8 001 (1) Type designation (2) Nominal inductance Date **Factory** Continuous Production (3) Quantity year/month number (4) Production lot number (5) Manufacturer's name January 2006 ~ December 2006 (6) Customer's code number 41~52 8 **KOA** (7) Order number 53~64 January 2007 ~ December 2007

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