

Excellent Integrated System Limited

Stocking Distributor

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<u>Vishay/Dale</u> <u>CRA06P043100KJTA</u>

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of CRA06P043100KJTA - RES ARRAY 2 RES 100K OHM 0606

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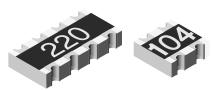




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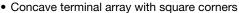
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Thick Film Chip Resistor Array



CRA06P thick film resistor array is constructed on a high grade ceramic body with concave terminations. A small package enables the design of high density circuits. The single component reduces board space, component counts and assembly costs.

FEATURES





• Wide ohmic range: 10R to 1M0



- · Lead (Pb)-free solder contacts on Ni barrier layer
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

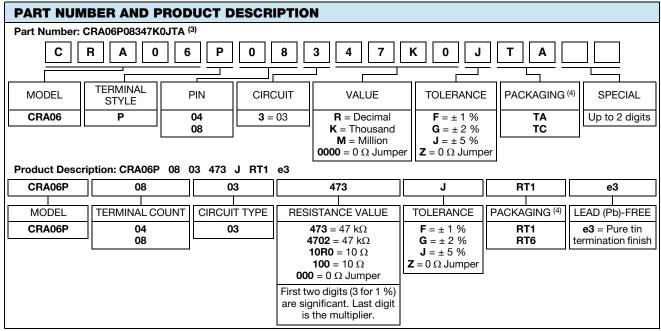
STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	CIRCUIT			$\begin{array}{c} \text{RESISTANCE} \\ \text{RANGE} \\ \Omega \end{array}$	E-SERIES		
		0.063	50	100	1	10 to 1M	24 + 96
CRA06P	03	0.003	30	200	2; 5	10 10 1101	24
		Zero-Ohm-Resistor: $R_{\text{max}} = 50 \text{ m}\Omega$, $I_{\text{max}} = 1 \text{ A}$					

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	CRA06P 03 CIRCUIT			
Rated dissipation at 70 °C (2)	W per element	0.063			
Limiting element voltage (1)	V≅	50			
Insulation voltage (1 min)	V _{DC/AC} peak	100			
Category temperature range	°C	- 55 to + 155			
Insulation resistance	Ω	> 10 ⁹			

Notes

(1) Rated voltage: $\sqrt{P \times R}$.

⁽²⁾ The power dissipation on the resistor generates a temperature rise against the local ambient, depending on the heat flow support of the printed-circuit board (thermal resistance). The rated dissipation applies only if the permitted film temperature of 155 °C is not exceeded.



Notes

- (3) Preferred way for ordering products is by use of the PART NUMBER.
- (4) Please refer to the table PACKAGING, see next page.

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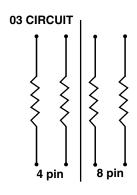
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CRA06P

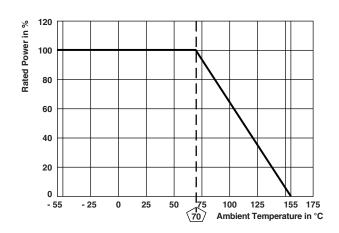
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PACKAGING							
				PACKAGING CODE			
MODEL TAPE WIDTH		DIAMETER	PITCH	PIECES/REEL	PAPER TAPE		
					PART NUMBER	PRODUCT DESCRIPTION	
CBAGED	RA06P 8 mm	180 mm/7"	4 mm	5000	TA	RT1	
Chaude		330 mm/13"	4 mm	20 000	TC	RT6	

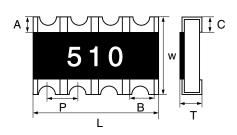
CIRCUIT

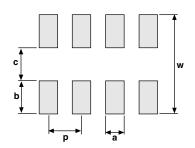


DERATING



DIMENSIONS





PIN	DIMENSIONS in millimeters								
NO#	L	Α	В	С	Р	Т	W		
4	1.60	0.30	0.40	0.40	0.80	0.60	1.60		
8	3.20	0.30	0.40	0.40	0.80	0.60	1.60		
Tol.	± 0.20	± 0.20	± 0.15	± 0.20	-	± 0.10	± 0.15		

SOLDER PAD DIMENSIONS in millimeters						
c w p a b				b		
WAVE	0.8	2.6	0.8	0.4	0.9	



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CRA06P

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EN 60115-1						
TEST	CONDITIONS OF TEST	REQUIREMENTS PERMISSIBLE CHANGE (Δ <i>R/R</i>) ⁽¹⁾				
(clause)	CONDITIONS OF TEST	STABILITY CLASS 1 OR BETTER	STABILITY CLASS 2 OR BETTER			
	Stability for product types:	40.01.4440	40.01.4140			
	CRA06P	10 Ω to 1 MΩ	10 Ω to 1 MΩ			
Resistance (4.5)	-	± 1 %	± 2 %; ± 5 %			
Temperature coefficient (4.8.4.2)	(20/- 55/20) °C and (20/125/20) °C	± 100 ppm/K	± 200 ppm/K			
Overload (4.13)	$U = 2.5 \times (P_{70} \times R)^{1/2}$ $\leq 2 \times U_{\text{max}}; 0.5 \text{ s}$	± (0.25 % R + 0.05 Ω)	± (0.5 % R + 0.05 Ω)			
Aging 4 h at 155 °C, dryheat Solderability (4.17.5) (2) Solder bath method; 235 °C; 2 s Visual examination		Good tinning (≥ 95 % covered) no visible damage				
Resistance to soldering heat (4.18.2)	Solder bath method; (260 ± 5) °C; (10 ± 1) s	± (0.25 % R + 0.05 Ω)	± (0.5 % R + 0.05 Ω)			
Rapid change of temperature (4.19)	30 min at LCT = - 55 °C; 30 min at UCT = 125 °C; 5 cycles	± (0.25 % R + 0.05 Ω)	± (0.5 % R + 0.05 Ω)			
Damp heat, steady state (4.24)	(40 ± 2) °C; 56 days; (93 ± 3) % RH	± (1 % R + 0.05 Ω)	± (2 % R + 0.1 Ω)			
Climatic sequence (4.23)	16 h at UCT = 125 °C; 1 cycle at 55 °C; 2 h at LCT = -55 °C; 1 h/1 kPa at 15 °C to 35 °C; 5 cycles at 55 °C U = (P ₇₀ x R) ^{1/2} U = U _{max.} ; whichever is less severe	± (1 % R + 0.05 Ω)	± (2 % R + 0.1 Ω)			
Endurance at 70 °C (4.25.1)	$U = (P_{70} \times R)^{1/2}$ $U = U_{\text{max.}}$; whichever is less severe 1.5 h "ON"; 0.5 h "OFF"; 70 °C; 1000 h	± (1 % R + 0.05 Ω)	± (2 % R + 0.1 Ω)			
Extended endurance (4.25.1.8)	Duration extended to 8000 h	± (2 % R + 0.1 Ω)	± (4 % R + 0.1 Ω)			
Endurance at upper category temperature (4.25.3)	UCT = 125 °C; 1000 h	± (1 % R + 0.05 Ω)	± (2 % R + 0.1 Ω)			

Notes

⁽²⁾ Solderability is specified for 2 years after production or requalification. Permitted storage time is 20 years.

APPLICABLE SPECIFICATIONS				
• EN 60115-1	Generic specification			
• EN 140400	Sectional specification			
• EN 140401-802	Detail specification			
• IEC 60068-2-X	Variety of environmental test procedures			
• EIA 481	Packaging of SMD components			

⁽¹⁾ Figures are given for a single element.



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