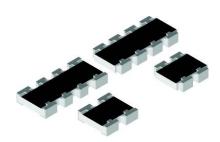
Vishay Dale



Thick Film, Resistor Array



CRA06E and CRA06S Thick Film resistor arrays are constructed on a high grade ceramic body with convex terminations. A small package enables the design of high density circuits. The single component reduces board space, component counts and assembly costs.

FEATURES

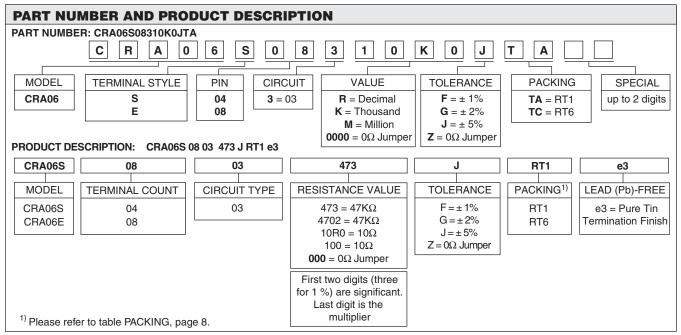


- Convex terminal array available with either scalloped corners (E version) or square corners (S version)
- Wide ohmic range: 10R to 1M0
- 4 or 8 terminal package with isolated resistors
- · Lead (Pb)-free solder contacts on Ni barrier layer
- Pure tin plating provides compatibility with Lead (Pb)-free and lead containing soldering processes
- Compatible with "Restriction of the use of Hazardous Substances" (RoHS) directive 2002/95/EC (issue 2004)
- Operating temperature range of 55°C to + 150°C

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	POWER RATING	CIRCUIT	LIMITING ELEMENT	TEMPERATURE	TOLERANCE	RESISTANCE	E-SERIES
	P _{70°C}		VOLTAGE MAX.	COEFFICIENT		RANGE	
	w		V≌	ppm/K	%	Ω	
CRA06E	0.000	00	F0	100	± 1	10R - 1M0	24 - 96
CRA06S	0.063	03	50	200	± 2; ± 5	10R - 1M0	24
Jumper: 7er	o-Ohm-Resistor avail	able: B < 50	ım O		, -	-	

TECHNICAL SPECIFICATIONS						
CRA06E & S						
PARAMETER	UNIT	03 CIRCUIT				
Rated Dissipation at 70°C	W	0.063				
Limiting Element Voltage 1)	V≌	50				
Insulation Voltage (1min)	V _{dc/ac peak}	100				
Category Temperature Range	°C	- 55 to + 150				
Insulation Resistance	Ω	> 10 ¹⁰				

¹⁾ Rated voltage: √ P*R

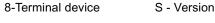


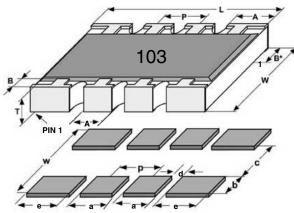
NOTE: Products can be ordered using either the Product Description or the Part Number.



Thick Film, Resistor Array

DIMENSIONS





	PIN		DIMENSIONS [in millimeters]						
MODEL	NO#	L	A	A ₁	В	В*	Р	т	w
CRA06S	4	1.6	0.38	0.61	0.3	0.3	0.8	0.5	1.5
CRA06E	8	3.2	0.38	-	0.3	0.3	0.8	0.5	1.5
CRA06S	8	3.2	0.38	0.61	0.3	0.3	0.8	0.5	1.5
	Tol	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.1	± 0.1	± 0.15

103 B T T T AA B D D D D D

E - Version

SOLDER PAD DIMENSIONS [in millimeters]								
MODEL	PINS	С	w	d	р	а	b	е
CRA06S	4	0.8	3.1	0.36		0.44	1.15	
CRA06E	8	0.8	3.1	0.36	0.8	0.44	1.15	0.63
CRA06S								

DESCRIPTION

Production is strictly controlled and follows a set of instructions established for reproducibility. A thick film layer is deposited on a high grade ceramic substrate. The resistor elements are covered by a protective coating designed for electrical, mechanical and climatic protection. The wrap around terminations receive a final pure tin on nickel plating.

The result of the determined production is verified by an extensive testing procedure. Only accepted products are laid directly into the paper tape in accordance with **EIA 481**.

ASSEMBLY

The resistors are suitable for processing on automatic SMD assembly systems. They are suitable for automatic soldering using wave and solder paste reflow. Due to the design, arrays have automatic placement capability. The resistors are Lead (Pb)-free, the pure tin plating provides compatibility with Lead (Pb)-free and Lead-containing soldering processes. All products comply with the CEFIC-EECA-EICTA list of legal restrictions on hazardous substances.

This includes full compatibility with the following directives:

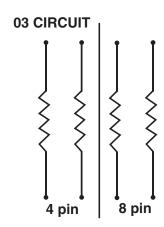
- 2000/53/EC End of Vehicle Life Directive (ELV)
- 2000/53/EC Annex II to End of Vehicle Life Directive (ELV II)
- 2002/95/EC Restriction of the use of Hazardous Substances Directive (RoHS)
- 2002/96/EC Waste Electrical and Electronic Equipment Directive (WEEE)

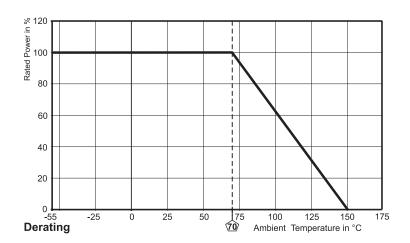
Solderability is specified for 2 years after production or requalification. The permitted storage time is 20 years. Vishay Dale

Thick Film, Resistor Array



CIRCUIT





PACKING							
MODEL	TADE MUDTU	DIAMETED	DIFOFO	DITOLI	PACKING CODE		
MODEL	TAPE WIDTH	DIAMETER	PIECES	PITCH	PAPER		
CRA06	8 mm	180 mm/7"	5 000	4 mm	RT1		
	8 mm	330 mm/13"	20 000	4 mm	RT6		





Thick Film, Resistor Array

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PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST RESULTS			
Endurance Test at 70°C per EIA 575	1000 hour at 70°C, 1.5 hours "ON", 0.5 hours "OFF"	± 1.0 %			
Overload per EIA 575	Short time overload 2.5 x rated continuous working voltage for 5 seconds. Not to exceed 2 x max operating voltage	± 0.5 %			
Thermal Shock	per EIA 575-3.5	± 0.5 %			
Moisture Resistance	per EIA 575-3.10	± 1.0 %			
Resistance to Soldering Heat EIA 575	10 seconds at 260°C solder bath temperature	± 2.0 %			
High Temperature Exposure	per EIA 575-3.7	± 1.0 %			
Low Temperature Operations	per EIA-575-3.6	± 0.5 %			
Solderability & Leaching	EIA 575-3.12	95 % Coverage			