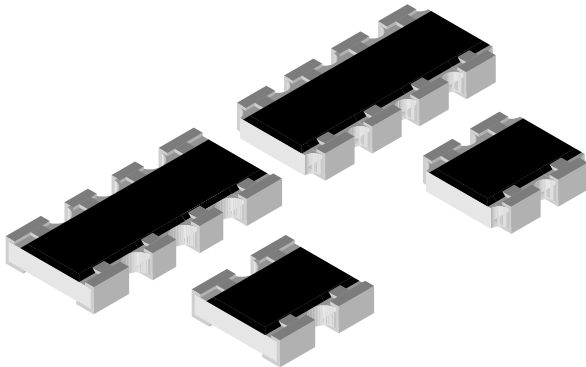


CRA06E and S

Vishay Dale



Thick Film, Resistor Array



FEATURES

- Convex terminal array available with either scalloped corners (E version) or square corners (S version)
- 4, 8, or 10 terminal package with either isolated resistors or bussed resistors
- Single component reduces board space and component counts
- Automatic placement capability
- Wave and solder paste reflow compatible
- Thick film resistance element
- Solderable wrap around termination
- Nickel barrier for inner electrode protection
- Standard E-24 ($\pm 2\%$ and $\pm 5\%$) and E-96 ($\pm 1\%$) resistance values
- Operating temperature range of -55°C to $+150^{\circ}\text{C}$
- Consult factory for additional schematics, values, etc

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{70^{\circ}\text{C}}$ W	CIRCUIT	LIMITING ELEMENT VOLTAGE MAX. $V_{\cong}$	TEMPERATURE COEFFICIENT ppm/ $^{\circ}\text{C}$	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
CRA06S	0.063	02, 20	50	250	5	22R-1M0	24
CRA06E & S	0.063	03	50	100	1	10R-1M0	24-96
				200	2, 5	10R-1M0	24

Jumper: Zero-Ohm-Resistor on Request

- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material
- Operating temperature Range: -55°C to $+150^{\circ}\text{C}$
- Ask about further value ranges
- Packaging: according to EIA 481

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	CRA06S 02, 20 CIRCUIT	CRA06E & S 03 CIRCUIT
Rated Dissipation at 70°C	W	0.063	0.063
Limiting Element Voltage ¹⁾	$V_{\cong}$	50	50
Insulation Voltage (1min)	$V_{\text{dc/ac peak}}$	100	100
Category Temperature Range	$^{\circ}\text{C}$	$-55 / +150$	$-55 / +150$
Insulation Resistance	Ω	$> 10^{10}$	$> 10^{10}$

¹⁾Rated voltage: $\sqrt{P \times R}$

ORDERING INFORMATION

CRA06S	08	03	473	J	RT1
MODEL	TERMINAL COUNT	CIRCUIT TYPE	R-VALUE Ω	TOLERANCE $\pm \%$	PACKAGING
CRA06S CRA06E	04, 08, 10 08	03, 02, 20 03	First two digits (three for 1%) are significant. Last digit is the multiplier 473 = 47K 4702 = 47K 100 = 10 Ω 10R0 = 10 Ω 000 = 0 Ω Jumper	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ Z = 0 Ω Jumper	Papertape 5000pcs



CRA06E and S

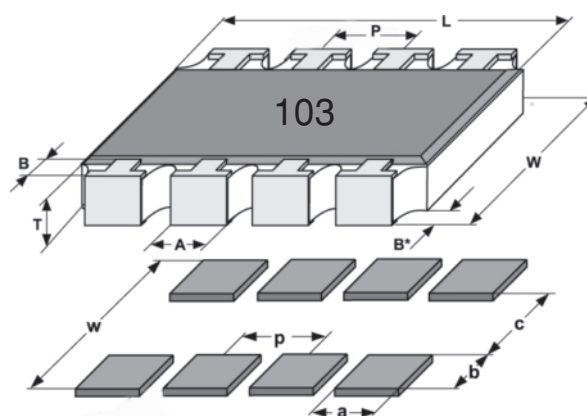
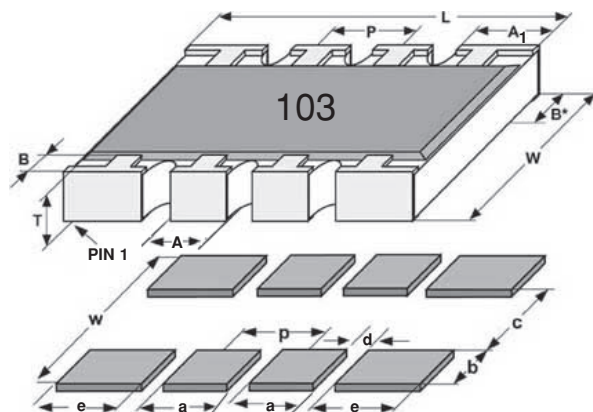
Thick Film, Resistor Array

Vishay Dale

8-Terminal device

S - Version

E - Version

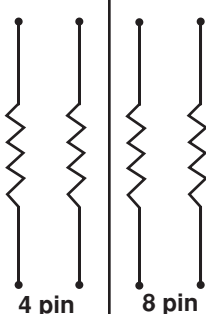


MODEL	PIN	DIMENSIONS [in millimeters]							
CRA	NO#	L	A	A ₁	B	B*	P	T	W
06S	4	1.6	0.38	0.61	0.3	0.3	0.8	0.4	1.5
06E	8	3.2	0.38	-	0.3	0.3	0.8	0.4	1.5
06S	8	3.2	0.38	0.61	0.3	0.3	0.8	0.4	1.5
06S	10	3.2	0.34	0.49	0.3	0.2	0.64	0.5	1.6
	Tol	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.1	± 0.05	± 0.15

SOLDER PAD DIMENSIONS [in millimeters]								
MODEL	PINS	c	w	d	p	a	b	e
CRA06S	4	0.8	3.1	0.36		0.44	1.15	
CRA06E + S	8	0.8	3.1	0.36	0.8	0.44	1.15	0.63
CRA06S	10	0.8	3.1	0.30	0.64	0.34	1.15	0.45

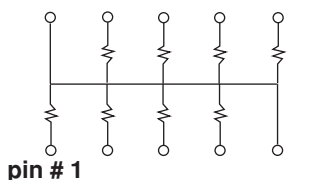
CIRCUIT SCHEMATIC

03 CIRCUIT



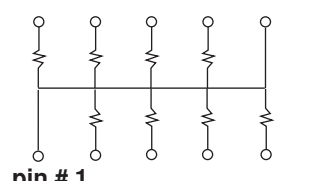
(CRA06S only)

02 CIRCUIT

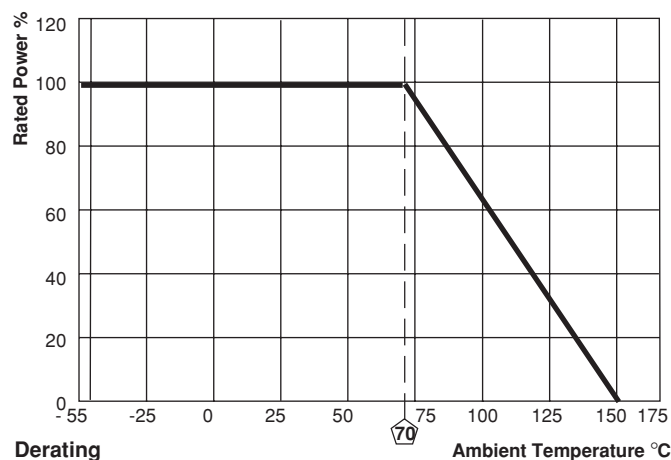


pin # 1

20 CIRCUIT



pin # 1



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