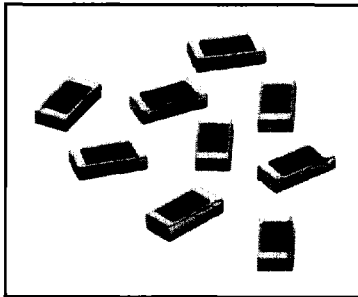


MODEL CRCW

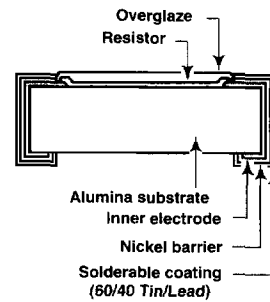
Thick Film Chip Resistors

Industrial



FEATURES

- Internationally standardized size
- Automatic placement compatibility
- Flow solderable
- Thick film resistance element
- Wraparound termination
- Inner electrode protection
- Operating temperature range is -55°C to +150°C



STANDARD ELECTRICAL SPECIFICATIONS							DIMENSIONAL CONFIGURATIONS					
MODEL	RESISTANCE, TOLERANCE & TEMP. COEFFICIENT RANGE					Power Rating and Max. Operating Voltage (@ 70°C) (See derating curve)	Zero Ohm Jumper	 [Numbers in brackets indicate millimeters]				
	E-12 Std. Res. Values	E-24 Std. Res. Values		E-96 Std. Res. Values				A	B	C	D	E
	± 10% & ± 20%	± 5%	± 5%	± 1%	± 1%							
	± 300 PPM/°C	± 300 PPM/°C	± 200 PPM/°C	± 200 PPM/°C	± 100 PPM/°C							
CRCW 0805		5.1Ω to 9.1Ω	10Ω to 1 Meg	10Ω to 1 Meg		1/10 W 100 V	0.05Ω Max. 1 AMP Max.	.079 ± .006 [2.00 ± .15]	.049 ± .006 [1.25 ± .15]	.020 ± .006 [.50 ± .15]	.016 ± .010 [.40 ± .25]	.016 ± .010 [.40 ± .25]
CRCW 1206	3.3Ω to 6.2Ω	3Ω to 9.1Ω	10Ω to 1 Meg	10Ω to 1 Meg		1/8 W 200 V [1/4W] [200V]	0.05Ω Max. 2 AMP Max.	.126 ± .006 [3.20 ± .15]	.063 ± .006 [1.60 ± .15]	.022 ± .006 [.56 ± .15]	.020 ± .010 [.50 ± .25]	.020 ± .010 [.50 ± .25]
CRCW 1210			10Ω to 1 Meg	10Ω to 1 Meg		1/4 W 200 V	0.05Ω Max. 4 AMP Max.	.126 ± .008 [3.20 ± .20]	.098 ± .008 [2.50 ± .20]	.022 ± .006 [.56 ± .15]	.020 ± .010 [.50 ± .25]	.020 ± .010 [.50 ± .25]
CRCW 2010		3Ω to 9.1Ω	10Ω to 1 Meg	10Ω to 1 Meg		1/2 W 200 V		.200 + .009 - .006 [5.08 + .23 - .15]	.100 + .009 - .006 [2.54 + .23 - .15]	.022 ± .006 [.56 ± .15]	.020 ± .010 [.50 ± .25]	.020 ± .010 [.50 ± .25]
CRCW 2512		3Ω to 9.1Ω	10Ω to 1 Meg	10Ω to 1 Meg		1 W 200 V		.250 + .009 - .006 [6.35 + .23 - .15]	.126 + .008 - .006 [3.20 + .20 - .15]	.022 ± .006 [.56 ± .15]	.020 ± .010 [.50 ± .25]	.020 ± .010 [.50 ± .25]

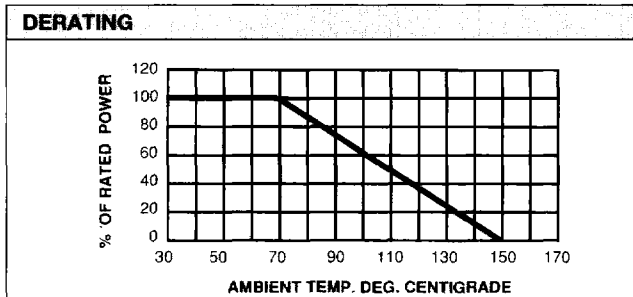
= Factory Stocked Resistance Range

= Contact Factory for Delivery

= Contact Factory for Availability

MODEL CRCW

ENVIRONMENTAL PERFORMANCE			
TEST	REQUIREMENT		SPECIFICATION
	1% TOLERANCE	5% TOLERANCE	
Thermal Shock	$\pm (0.5\% + 0.05\Omega)$	$\pm (1.0\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.5
Short Time Overload	$\pm (0.5\% + 0.05\Omega)$	$\pm (2.5\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.7
Low Temperature Operation	$\pm (0.5\% + 0.05\Omega)$	$\pm (1.5\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.6
High Temperature Exposure	$\pm (1.0\% + 0.05\Omega)$	$\pm (1.5\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.8
Moisture Resistance	$\pm (0.5\% + 0.05\Omega)$	$\pm (3.0\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.10
Life	$\pm (2.0\% + 0.05\Omega)$	$\pm (3.0\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.13
Effect of Soldering	$\pm (0.25\% + 0.05\Omega)$	$\pm (3.0\% + 0.1\Omega)$	EIA STD.IS-30, Para. 3.9
Solderability and Leach Resistance	95% min. coverage of termination	95% min. coverage of termination	EIA STD.IS-30, Para. 3.12
Termination Adhesion	0.5 Kg min.	0.5 Kg min.	AXIAL PULL (soldered-on #26 nailhead lead with .037" dia. head)



PART MARKING

(PER EIA STD. IS-30)

--- Resistance code

(1% units = 4 digit value code)

(5% units = 3 digit value code)

HOW TO ORDER

CRCW MODEL	XXXX SIZE	XXX OR XXXX RESISTANCE VALUE CODE	X TOLERANCE	XXX PACKAGING *
	0805 2010 1206 2512 1210	First two digits (three for "F" tolerance) are significant; last digit is the multiplier.	F = $\pm 1\%$ J = $\pm 5\%$	B02 = Bulk - 1,000 pieces per plastic bag RT1 = Paper Tape - 5,000 pieces per reel RT2 = Punched Plastic Tape - 5,000 pieces per reel RT3 = Punched Plastic Tape - 10,000 pieces per reel (Contact factory) RT5 = Punched Paper Tape - 10,000 pieces per reel (Contact factory) * Contact factory for packaging on 2010 and 2512 models

TAPE AND REEL SPECIFICATIONS

Packaging: Per EIA Std. RS-481.

Reel

Reel Dimensions

Tape

(USER DIRECTION OF FEED) →

Trailer (Note 2) Components Leader (Note 1)

Tape Dimensions

NOTE 1. There shall be a leader of 230mm minimum which may consist of carrier and/or cover tape followed by a minimum of 160mm of carrier tape with sealed cover tape not to exceed 560mm combined total.

NOTE 2. There shall be a minimum of 40 empty component pockets sealed with cover tape.

MODEL	A ± .005 [.13]	B ± .005 [.13]
CRCW0805	.070 [1.78]	.100 [2.54]
CRCW1206	.080 [2.03]	.142 [3.61]
CRCW1210	.115 [2.92]	.142 [3.61]