



Description

Cooper Bussmann PowerStor supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor solutions tailored to specific applications that range from a few microamps for several days to several amps for a few milliseconds.

The CR series offers a wide range of high capacitance coin cell style products for use in memory & RTC back-up applications. End products include computers, cameras, camcorders, telephones, printers, car stereos, CCTV, set top box and PDP.



SPECIFICATIONS

Working Voltage	5.5 volts
Surge Voltage	6.3 volts
Capacitance	0.1F to 1.5F
Capacitance Tolerance	-20% to +80% (20°C)
Operating Temperature Range	-25°C to 70°C

STANDARD PRODUCT

Capacitance (F)	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance) Measured @ 1kHz (ref)	Nominal Dimensions (mm)	Typical Mass (grams/piece)
0.1	CR-5R5V104-R	75	$\varnothing=11.5\text{mm}$; L=12.5mm; P=5mm	TBD
0.1	CR-5R5H104-R	75	$\varnothing=11.5\text{mm}$; L=5mm; P=10mm	TBD
0.1	CR-5R5C104-R	75	$\varnothing=13.5\text{mm}$; L=7.5mm; P=5mm	TBD
0.22	CR-5R5V224-R	75	$\varnothing=11.5\text{mm}$; L=12.5mm; P=5mm	TBD
0.22	CR-5R5H224-R	75	$\varnothing=11.5\text{mm}$; L=5mm; P=10mm	TBD
0.22	CR-5R5C224-R	75	$\varnothing=13.5\text{mm}$; L=7.5mm; P=5mm	TBD
0.33	CR-5R5V334-R	50	$\varnothing=11.5\text{mm}$; L=12.5mm; P=5mm	TBD
0.33	CR-5R5H334-R	50	$\varnothing=11.5\text{mm}$; L=5mm; P=10mm	TBD
0.33	CR-5R5C334-R	50	$\varnothing=13.5\text{mm}$; L=7.5mm; P=5mm	TBD
0.47	CR-5R5V474-R	50	$\varnothing=11.5\text{mm}$; L=12.5mm; P=5mm	TBD
0.47	CR-5R5H474-R	50	$\varnothing=11.5\text{mm}$; L=5mm; P=10mm	TBD
0.47	CR-5R5C474-R	50	$\varnothing=13.5\text{mm}$; L=7.5mm; P=5mm	TBD
1.0	CR-5R5V105-R	30	$\varnothing=19\text{mm}$; L=19.5mm; P=5mm	TBD
1.0	CR-5R5H105-R	30	$\varnothing=19\text{mm}$; L=6.5mm; P=20mm	TBD
1.0	CR-5R5C105-R	30	$\varnothing=21.5\text{mm}$; L=7.5mm; P=5mm	TBD
1.5	CR-5R5V155-R	30	$\varnothing=19\text{mm}$; L=19.5mm; P=5mm	TBD
1.5	CR-5R5H155-R	30	$\varnothing=19\text{mm}$; L=6.5mm; P=20mm	TBD
1.5	CR-5R5C155-R	30	$\varnothing=21.5\text{mm}$; L=7.5mm; P=5mm	TBD

PERFORMANCE

Parameter	Capacitance Change (% of initial measured value)	ESR (% of initial measured value)
Life (1000 hrs @ 70°C @ 5.5 volts DC)	$\leq 30\%$	$\leq 400\%$
Storage - Low and High Temperature (1000 hrs @ -25°C and 70°C)	$\leq 30\%$	$\leq 400\%$



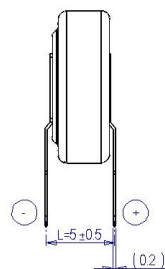
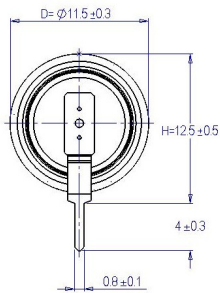
Visit us on the Web at www.cooperbussmann.com

1225 Broken Sound Parkway, NW, Suite F, Boca Raton, Florida 33487-3533
 Tel: +1-561-998-4100 Toll Free: +1-888-414-2645 Fax: +1-561-241-6640

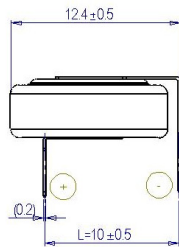


Part Number	D	H	P
CR-5R5V104-R	11.8	13	5
CR-5R5H104-R	11.7	6	10
CR-5R5C104-R	13.5	6.5	5
CR-5R5V224-R	11.8	13	5
CR-5R5H224-R	11.7	6	10
CR-5R5C224-R	13.5	6.5	5
CR-5R5V334-R	11.8	13	5
CR-5R5H334-R	11.7	6	10
CR-5R5C334-R	13.5	6.5	5
CR-5R5V474-R	11.8	13	5
CR-5R5H474-R	11.7	6	10
CR-5R5C474-R	13.5	6.5	5
CR-5R5V105-R	19.3	20	5
CR-5R5H105-R	19.5	7	20
CR-5R5C105-R	21.5	7.5	5
CR-5R5V155-R	19.3	20	5
CR-5R5H155-R	19.5	7	20
CR-5R5C155-R	21.5	7.5	5
	Maximum		± 0.3

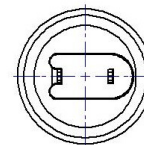
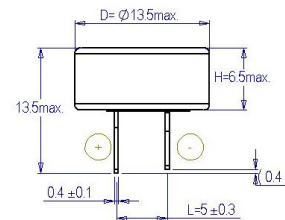
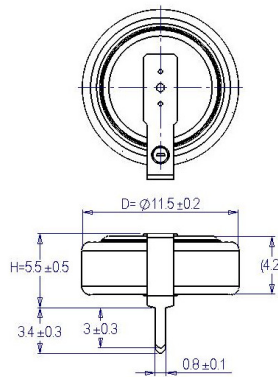
For parts 0.1F to 0.47F



V type



H type



C type

Rev X2 02/10

© Cooper Bussmann 2010

Visit us on the Web at www.cooperbussmann.com

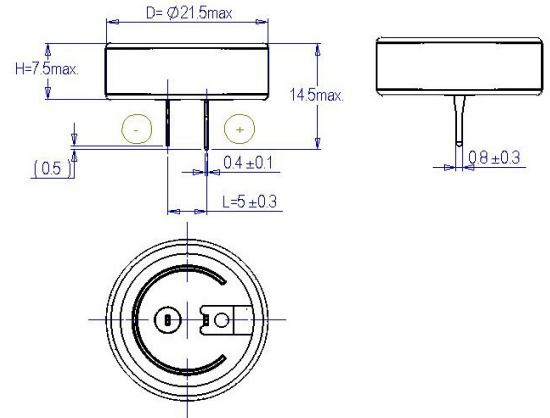
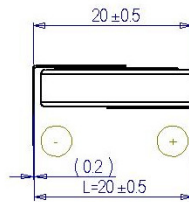
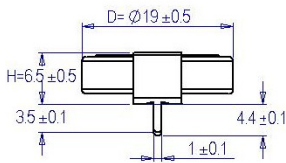
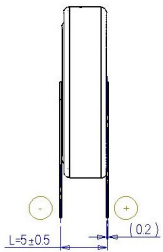
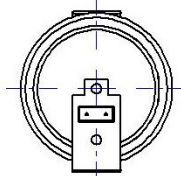
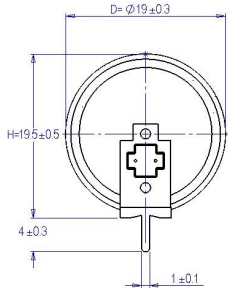
1225 Broken Sound Parkway, NW, Suite F, Boca Raton, Florida 33487-3533

Tel: +1-561-998-4100 Toll Free: +1-888-414-2645 Fax: +1-561-241-6640

This bulletin is intended to present product design solutions and technical information that will help the user with design applications. Cooper Electronic Technologies reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Electronic Technologies also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.



For parts 1.0F to 1.5F



V type

H type

C type

PART NUMBERING SYSTEM							
CR	-	5	R	5			
Series Code		Voltage (V) R is decimal		Configuration		Capacitance (µ F)	
CR Series		5R5 = 5.5V		V = Vertical H = Horizontal C = Cylindrical		Value	Multiplier
						Example: 104 = 10 x 10 ⁴ µ F or 0.1F	

PACKAGING INFORMATION	PART MARKING
Standard packaging: Bulk 500 units per package.	Manufacturer Capacitance (F) Nominal Working Voltage (V) Series Code (or part number) Polarity Marking

Rev X2 02/10

© Cooper Bussmann 2010

Visit us on the Web at www.cooperbussmann.com

1225 Broken Sound Parkway, NW, Suite F, Boca Raton, Florida 33487-3533

Tel: +1-561-998-4100 Toll Free: +1-888-414-2645 Fax: +1-561-241-6640

This bulletin is intended to present product design solutions and technical information that will help the user with design applications. Cooper Electronic Technologies reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Electronic Technologies also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.