

# we are reliable

Our capacitors transport you to work on time

SNUBBER CAPACITORS



[www.api-capacitors.com](http://www.api-capacitors.com)

 **apicapacitors**

## SNUBBER CAPACITORS

API Capacitors offer a wide range of snubber capacitors for GTO, IGCT and other thyristor devices. Current, voltage, size, mass and terminations are matched to the customer's requirement and application, a few of which are listed below.

Long life and high reliability is achieved using ultra low defect density, high isotactic, metallised polypropylene dielectric film incorporating an extended working temperature range and self-healing capability. High current carrying capability is achieved using low resistance foil electrodes. Capacitors are impregnated with an environmentally safe oil then finished in an insulated polymer case or encapsulated in resin. Alternatively leak free dry solutions are available.

### Typical Applications\*

Used in Transportation, Marine, Automotive, Aerospace, Military, Medical, Renewable Energy, Power Distribution sectors and other industrial applications.

Static/Non-static Drives (Propulsion, Traction, Elevators, Escalators, Conveyors, Cable Cars)

Power Electronics (Welding, Furnaces, Induction Heating, Lasers, Scanners, Detectors)

Power Transmission (Conditioning, Detuned, FACTS, STATCOM, SVC)

Passenger/Freight Rail (Auxiliary Circuits: Lighting, Heating, Ventilation, Communication)

Electric/ Hybrid Vehicles (KERS)

Filters (Smoothing, Suppression, Harmonic)

Converters (Inverters, Rectifiers, Choppers, Cycloconverters)

### Features

Long Life and High Reliability

Self-Healing Technology

Oil Filled or Dry

Insulated Cases

UV Resistance, Halogen Free, Low Smoke and Flame Retardant Materials

### Custom Design Capacitors

Designed to meet detailed or brief specifications. Our technical sales representatives can work closely with your design team at concept stage or at the later stages of a project when a time critical design is needed. Alternatively like for-like replacements for older retro-fit designs can be offered.

### Typical Characteristics\*

Rated Capacitance (C):	0.01 to 10 $\mu$ F
Peak Repetitive Voltage ( $U_N$ ):	500 to 10,000 V
Continuous RMS Current ( $I_{max}$ ):	10 to 120 $A_{rms}$
Frequency ( $f_p$ ):	100 to 20,000 Hz
Ambient Temperature ( $\theta_{amb}$ ):	-40 to +85 °C
Case Materials:	Insulated
Termination:	Threaded M6-M8 Brass
Related Standards:	BS EN 61071, BS EN 61881



\* Applications and characteristics are for guidance only. Please contact us to discuss our full design capability.

**GTO PROTECTION CAPACITORS – GATOS® RANGE**

<b>GATOS – 1800V range</b>								
<b>U<sub>DC</sub> = 900 V</b>		<b>U<sub>N</sub> = 1400 V</b>			<b>U<sub>S</sub> = 1800 V</b>		<b>U<sub>max</sub> = 550 V<sub>rms</sub></b>	
<b>C</b> (μF)	<b>I<sub>max</sub></b> (A <sub>rms</sub> )	<b>I<sub>p</sub></b> (A)	<b>R<sub>s</sub></b> (mΩ)	<b>L</b> (nH)	<b>R<sub>θ</sub></b> (°C/W)	<b>Dimensions (±2 mm)</b>		<b>Part Number</b>
						<b>Diameter (Ø)</b>	<b>Height (H)</b>	
1.0	30	1000	1.25	8	10.34	45	58	GT1804
1.5	40	1500	0.80	8	8.98	50	58	GT1805
2.0	55	2000	0.60	7	7.04	55	58	GT1635
2.5	65	2500	0.50	7	6.30	65	58	GT1806
3.0	75	3000	0.40	7	5.68	70	58	GT1508
4.0	90	4100	0.30	6	5.15	75	58	GT1636
5.0	90	5100	0.25	6	4.31	85	58	GT1807
6.0	90	6200	0.20	6	3.96	90	58	GT1637
8.0	90	8200	0.15	5	3.15	105	58	GT1808

<b>GATOS – 2000V range</b>								
<b>U<sub>DC</sub> = 1000 V</b>		<b>U<sub>N</sub> = 1600 V</b>			<b>U<sub>S</sub> = 2000 V</b>		<b>U<sub>max</sub> = 600 V<sub>rms</sub></b>	
<b>C</b> (μF)	<b>I<sub>max</sub></b> (A <sub>rms</sub> )	<b>I<sub>p</sub></b> (A)	<b>R<sub>s</sub></b> (mΩ)	<b>L</b> (nH)	<b>R<sub>θ</sub></b> (°C/W)	<b>Dimensions (±2 mm)</b>		<b>Part Number</b>
						<b>Diameter (Ø)</b>	<b>Height (H)</b>	
0.5	24	700	1.60	7	12.82	40	49	GT1480
1.0	40	1400	0.80	6	9.49	50	54	GT1481
1.5	60	2100	0.55	6	7.43	60	54	GT1809
2.0	75	2800	0.40	6	5.95	70	54	GT1482
2.5	85	3500	0.30	6	5.40	75	54	GT1810
3.0	90	4200	0.25	5	4.92	80	54	GT1811
4.0	90	5600	0.20	5	4.13	90	54	GT1812
5.0	65	2800	0.75	8	4.29	70	86	GT1813
6.0	70	3400	0.60	7	3.92	75	86	GT1814
8.0	85	4500	0.45	7	3.31	85	86	GT1815

GATOS – 2500V range								
U <sub>DC</sub> = 1300 V		U <sub>N</sub> = 2000 V			U <sub>S</sub> = 2500 V		U <sub>max</sub> = 700 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
1.0	36	2500	1.38	8	5.00	50	62	GT1580
1.5	50	1900	0.75	8	6.70	60	62	GT1483
2.0	65	2500	0.35	7	4.10	70	62	GT1581
2.5	75	3000	0.30	7	3.80	80	62	GT1425B
3.0	85	3700	0.35	7	4.50	80	62	GT1484
4.0	90	4900	0.35	6	3.60	90	62	GT1485
5.0	60	7100	0.77	7	3.60	80	86	GT1816
6.0	80	4100	0.50	7	3.31	85	86	-
6.0	136	4100	0.40	7.5	2.10	90	74	GT1582
8.0	90	5400	0.40	6	2.65	95	86	GT1817

GATOS - 2600V range								
U <sub>DC</sub> = 1400 V		U <sub>N</sub> = 2100 V			U <sub>S</sub> = 2600 V		U <sub>max</sub> = 800 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
1.0	36	2500	1.40	8	5.00	50	62	GT2326
1.5	50	1900	0.75	8	6.70	60	62	GT2327
2.0	65	2500	0.55	7	5.43	70	62	GT2328
2.5	75	3000	0.45	7	4.93	80	62	GT2329
3.0	85	3700	0.46	7	3.71	80	62	GT2330
4.0	90	4900	0.25	6	3.81	90	62	GT2331
5.0	70	7000	0.75	7	3.50	80	86	GT2332
6.0	80	4100	0.50	7	3.31	85	86	GT2333
8.0	90	5400	0.40	6	2.65	95	86	GT2334

GATOS - 3300V range								
U <sub>DC</sub> = 1650 V		U <sub>N</sub> = 2600 V			U <sub>S</sub> = 3300 V		U <sub>max</sub> = 900 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	35	700	1.40	6	12.00	45	48	GT1509A
0.5	25	800	1.75	8	9.80	45	62	GT1818
1.0	45	1500	0.90	8	6.70	60	62	GT1819
1.5	60	2300	0.60	7	5.43	70	62	GT1820
2.0	80	3100	0.45	7	4.50	80	62	GT1821
2.5	85	3900	0.35	6	3.81	90	62	GT1822
3.0	90	4600	0.30	5	3.51	95	62	GT1823
4.0	75	3400	0.60	7	3.31	85	86	GT1824
5.0	85	4200	0.50	6	2.85	95	86	GT1825

GATOS - 3600V range								
U <sub>DC</sub> = 2000 V		U <sub>N</sub> = 2900 V			U <sub>S</sub> = 3600 V		U <sub>max</sub> = 1100 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	25	800	2.35	10	8.93	40	84	GT1826
0.5	30	1000	2.45	13	6.41	45	104	GT1827
1.0	50	2100	1.25	13	4.53	60	104	GT1828
1.5	65	3100	0.80	11	3.73	70	104	GT1829
2.0	75	4100	0.60	11	3.42	75	104	GT1830
2.5	90	5100	0.50	11	2.91	85	104	GT1831
3.0	90	6200	0.40	10	2.70	90	104	GT1832
4.0	90	8200	0.30	10	2.20	105	104	GT1833

GATOS – 4000V range								
U <sub>DC</sub> = 2200 V		U <sub>N</sub> = 3200 V			U <sub>S</sub> = 4000 V		U <sub>max</sub> = 1100 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	25	700	3.15	12	7.94	40	95	GT1834
0.5	40	1400	1.60	11	6.05	50	95	GT1835
1.0	65	2800	0.80	11	3.98	70	95	GT1836
1.5	85	4200	0.55	10	3.34	80	95	GT1837
2.0	90	5600	0.40	10	2.86	90	95	GT1838
2.5	55	2800	1.45	14	2.61	70	158	GT1839
3.0	60	3400	1.25	14	2.41	75	158	GT1840
4.0	75	4500	0.90	14	2.07	85	158	GT1841
5.0	80	5700	0.75	13	1.81	90	158	GT1842
6.0	90	6800	0.60	13	1.69	100	158	GT1843

GATOS – 4500V range								
U <sub>DC</sub> = 2600 V		U <sub>N</sub> = 3800 V			U <sub>S</sub> = 4500 V		U <sub>max</sub> = 1400 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.5	35	1200	2.20	12	5.30	50	108	GT1710
1.0	55	2500	1.10	12	3.52	70	108	GT1611
1.5	70	3700	0.75	10	2.97	80	108	GT1844
2.0	90	4900	0.55	10	2.55	90	108	GT1612
2.5	60	3400	1.25	14	2.23	80	158	GT1845
3.0	70	4100	1.00	13	2.07	90	158	GT1718
4.0	80	5400	0.75	13	1.69	95	158	GT1613
5.0	90	6800	0.60	12	1.50	105	158	GT1614
6.0	90	8100	0.50	12	1.42	115	158	GT1626

GATOS – 6000V range								
U <sub>DC</sub> = 3300 V		U <sub>N</sub> = 4800 V			U <sub>S</sub> = 6000 V		U <sub>max</sub> = 1700 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	40	1400	1.40	10	5.38	60	84	GT1846
0.5	40	1500	1.75	12	4.26	60	108	GT1847
1.0	65	3100	0.90	10	2.97	80	108	GT1848
1.5	90	4600	0.60	10	2.38	95	108	GT1849
2.0	65	3400	1.25	14	2.07	85	158	GT1850
2.5	75	4200	1.00	13	1.81	95	158	GT1851
3.0	85	5100	0.80	13	1.59	100	158	GT1852
4.0	90	6800	0.60	12	1.35	115	158	GT1853

GATOS – 7200V range								
U <sub>DC</sub> = 3700 V		U <sub>N</sub> = 5500 V			U <sub>S</sub> = 7200 V		U <sub>max</sub> = 2000 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.5	40	1850	2.76	16	3.26	60	158	GT2586
0.75	54	2750	1.84	15	2.72	70	158	GT2587
1.0	68	3700	1.38	15	2.31	80	158	GT2588
1.5	93	5500	0.92	14	1.87	95	158	GT2589
2.0	118	7400	0.69	13	1.56	110	158	GT2590
2.0	85	5100	1.30	20	1.58	95	189	GT2591
2.5	98	6350	1.04	19	1.48	100	189	GT2592
3.0	114	7600	0.87	18	1.32	110	189	GT2593

## Introduction

API Capacitors GCT protection capacitors are designed to meet the requirements of the traction industry and for static drive applications. They are built to extremely high standards, offering enhanced properties over other similar looking designs. Wound with a combination of metallised polypropylene film and extended foil electrodes, in conjunction with a stable, environmentally safe liquid impregnant, extremely long life and reliable self-healing capabilities are assured. The loss angle ( $\tan\delta f$ ) is extremely low ( $<0.0003$  at 1kHz) and the aluminium foil electrodes provide excellent thermal characteristics.

## Application

API Capacitors GCT capacitors are designed for the severe duties of gate-commutated thyristors (GCT's). They are also for tuning applications in the medium frequency range.

## Technology

The advanced polypropylene dielectric system of these capacitors has been specially developed for high peak current and surge voltage applications.

## Features

- High peak current capability
- Very low inductance
- Very low losses

Encapsulated in fire-resistant epoxy resin, the extremely robust mechanical design is suitable for the rigours of traction duty, especially vibration conditions and high ambient temperatures. M8 x 8 mm axial connections are provided, which are securely bonded to the foil electrodes.

## CHARACTERISTICS

The following parameters are applicable to the range of capacitors that appear on the following pages. As mentioned above, should a particular combination of capacitance value or voltage not be available or should there be a dimensional constraint, please contact us for a design suited to your particular needs.

<b>Capacitance value:</b>	0.25 $\mu$ F to 4.0 $\mu$ F
<b>Tolerance:</b>	$\pm 5\%$
<b>Voltage rating (UDC):</b>	2200 V to 3300 V
<b>Peak repetitive voltage (UN):</b>	3200 V to 4800 V
<b>Peak non-repetitive voltage (Us):</b>	4000 V to 6000 V
<b>Maximum surge current:</b>	2600 A to 23500 A
<b>Loss angle (<math>\tan\delta f</math>):</b>	$\leq 0.0003$ at 1kHz
<b>Insulation resistance:</b>	$\geq 10,000 \text{ M}\Omega \cdot \mu\text{F (sec)}$
<b>Current rating:</b>	Up to 120 Arms, depending on capacitance, voltage rating and thermal constraints.
<b>Operating temperature (<math>\theta_{amb}</math>):</b>	-40 to +70°C
<b>Storage temperature:</b>	-40 to +85°C
<b>Tightening torque (connections):</b>	M6 x 6 mm internal thread brass connection – 3 m M8 x 8 mm internal thread brass connection – 6 Nm <b>NB These torque values are for use with brass screws.</b>
<b>International standard:</b>	In accordance with BS EN 61071:2007 & BS EN 61881:200



**GCT PROTECTION CAPACITORS – GC RANGE**

GCT – 4000V range								
U <sub>DC</sub> = 2200 V		U <sub>N</sub> = 3200 V			U <sub>S</sub> = 4000 V		U <sub>max</sub> = 1100 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	30	2600	1.82	12	8.56	40*	88	GC2661
0.5	55	5100	0.91	11	5.58	55	95	GC2662
1.0	90	10300	0.46	11	4.11	70	95	GC2663
1.5	120	15400	0.30	10	3.18	85	95	GC2664
2.0	120	20500	0.23	10	2.74	95	95	GC2665
2.5	80	9800	0.92	14	2.67	70	158	GC2666
3.0	90	11700	0.77	14	2.46	75	158	GC2667
4.0	110	15600	0.58	14	2.11	85	158	GC2668

GCT – 4500V range								
U <sub>DC</sub> = 2600 V		U <sub>N</sub> = 3800 V			U <sub>S</sub> = 4500 V		U <sub>max</sub> = 1400 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	45	4100	0.97	10	7.06	50	84	GC2671
0.5	45	4100	1.38	12	5.48	50	108	GC2672
1.0	75	8200	0.69	12	3.97	70	108	GC2673
1.5	100	12300	0.46	10	3.06	80	108	GC2674
2.0	120	16400	0.35	10	2.62	90	108	GC2675
2.5	90	11700	0.77	14	2.28	80	158	GC2676
3.0	105	14100	0.64	13	2.11	90	158	GC2677
4.0	120	18700	0.48	13	1.84	95	158	GC2678

GCT – 6000V range								
U <sub>DC</sub> = 3300 V		U <sub>N</sub> = 4800 V			U <sub>S</sub> = 6000 V		U <sub>max</sub> = 1700 V <sub>rms</sub>	
C (μF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>s</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Part Number
						Diameter (Ø)	Height (H)	
0.25	60	5100	0.78	10	5.59	60	84	GC2681
0.5	60	5600	1.01	12	3.97	65	108	GC2682
1.0	100	11200	0.51	10	2.83	85	108	GC2683
1.5	120	16800	0.34	10	2.28	100	108	GC2684
2.0	95	11700	0.77	14	2.11	85	158	GC2685
2.5	115	14700	0.61	13	1.84	95	158	GC2686
3.0	120	17600	0.51	13	1.63	100	158	GC2687
4.0	120	23500	0.38	12	1.45	115	158	GC2688

\*40mm diameter capacitors have M6 x 6 mm bosses, all others have M8 x 8 mm

## Introduction

Thyristor snubber capacitor technology, particularly for rectifier circuits where bi-directional voltages are experienced, have traditionally used film and foil construction in order to accommodate the ac conditions involved.

## Applications

API Capacitors thyristor snubber capacitors are suitable for a wide range of inverter and converter applications. They are particularly useful for thyristor controlled rectifier circuits such as dc power transmission and traction lineside equipment.



The following parameters are applicable to the range of capacitors that follow this introductory section. Should there be a particular combination of capacitance value or voltage not given, or should there be a dimensional constraint, please contact us for a design suited to your particular needs.

<b>Capacitance value:</b>	0.22 $\mu$ F to 2.0 $\mu$ F
<b>Tolerance:</b>	$\pm$ 5%
<b>Voltage rating (UDC):</b>	1750 V to 3500 V
<b>Peak repetitive voltage (UN):</b>	2800 V to 5600 V
<b>Peak non-repetitive voltage (Us):</b>	4000 V to 8000 V
<b>RMS voltage (Umax):</b>	1250 Vrms to 2500 Vrms
<b>Loss angle (tan<math>\delta</math>):</b>	<0.0003 at 1kHz
<b>Insulation resistance:</b>	$\geq$ 10,000 M $\Omega$ - $\mu$ F (sec)
<b>Current rating:</b>	Up to 84 Arms, depending on capacitance, voltage rating and thermal constraints.
<b>Operating temperature (<math>\theta</math>amb):</b>	-40 to +70°C
<b>Storage temperature:</b>	40 to +85°C
<b>Tightening torque:</b>	M6 x 6 mm internal thread brass connection – 3 Nm M8 x 8 mm internal thread brass connection – 6 Nm <b>NB These torque values are for use with brass screws.</b>
<b>International standard:</b>	In accordance with BS EN 61071:2007 & BS EN 61881:2000

## Technology

API Capacitors has developed a range of metallised capacitors specifically for thyristor snubber applications which are also fully ac rated. The special dielectric system ensures that the self-healing mechanism cannot produce catastrophic failure. In addition, the design ensures that high peak current can be repetitively withstood without long term damage.

These capacitors are normally housed in fire resistant epoxy resin: a proven, extremely robust encapsulation, suitable for the rigours of severe vibration and high ambient temperature conditions of traction duty.

Alternatively, although not detailed here, the older style metal-cased units may also be accommodated. Please contact us for these designs, if required.

**THYRISTOR SNUBBER CAPACITORS – ZC RANGE**

ZC - 4000V range									
U <sub>DC</sub> = 1750 V		U <sub>N</sub> = 2800 V			U <sub>S</sub> = 4000 V			U <sub>max</sub> = 1250 V <sub>rms</sub>	
C (µF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>S</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Thread (mm)	Part Number
						Diameter (Ø)	Height (H)		
0.33	9	150	4.01	8	12.08	40	73	M6 x 6	ZC2600
0.50	14	225	2.65	8	10.43	45	73	M6 x 6	ZC2601
0.68	19	300	1.95	8	8.74	50	77	M8 x 8	ZC2602
0.75	21	335	1.76	8	7.74	55	77	M8 x 8	ZC2603
1.00	28	450	1.32	8	6.91	60	77	M8 x 8	ZC2604
1.25	35	560	1.06	8	6.22	65	77	M8 x 8	ZC2605
1.50	42	675	0.88	8	5.64	70	77	M8 x 8	ZC2606
2.00	56	895	0.66	8	4.71	80	77	M8 x 8	ZC2607

ZC - 6500V range									
U <sub>DC</sub> = 2800 V		U <sub>N</sub> = 4500 V			U <sub>S</sub> = 6500 V			U <sub>max</sub> = 1600 V <sub>rms</sub>	
C (µF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>S</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Thread (mm)	Part Number
						Diameter (Ø)	Height (H)		
0.33	6	100	6.83	12	6.48	40	118	M6 x 6	ZC2147
0.50	10	150	4.55	12	5.65	45	118	M6 x 6	ZC2115
0.68	13	200	3.35	12	5.00	50	122	M8 x 8	ZC2116
0.75	14	225	3.03	12	5.00	50	122	M8 x 8	ZC2148
1.00	19	300	2.28	12	4.46	55	122	M8 x 8	ZC2105
1.25	24	380	1.82	12	3.73	60	122	M8 x 8	ZC2178
1.50	28	450	1.52	12	3.64	65	122	M8 x 8	ZC2149
1.75	33	530	1.30	12	3.13	70	122	M8 x 8	ZC2179
2.00	38	600	1.14	12	3.05	75	122	M8 x 8	ZC2150

ZC - 8000V range									
U <sub>DC</sub> = 3500 V		U <sub>N</sub> = 5600 V			U <sub>S</sub> = 8000 V			U <sub>max</sub> = 2500 V <sub>rms</sub>	
C (µF)	I <sub>max</sub> (A <sub>rms</sub> )	I <sub>p</sub> (A)	R <sub>S</sub> (mΩ)	L (nH)	R <sub>θ</sub> (°C/W)	Dimensions (±2 mm)		Thread (mm)	Part Number
						Diameter (Ø)	Height (H)		
0.22	12	200	6.00	15	6.19	45	133	M6 x 6	ZC2550
0.33	19	295	4.01	15	5.33	50	137	M8 x 8	ZC2552
0.50	28	450	2.65	15	4.30	60	137	M8 x 8	ZC2554
0.75	40	675	1.76	15	3.58	70	137	M8 x 8	ZC2556
1.00	50	900	1.32	15	3.04	80	137	M8 x 8	ZC2557
1.25	58	1120	1.06	15	2.82	85	137	M8 x 8	ZC2558
1.50	68	1340	0.88	15	2.45	95	137	M8 x 8	ZC2559
2.00	84	1800	0.66	15	2.16	105	137	M8 x 8	ZC2561