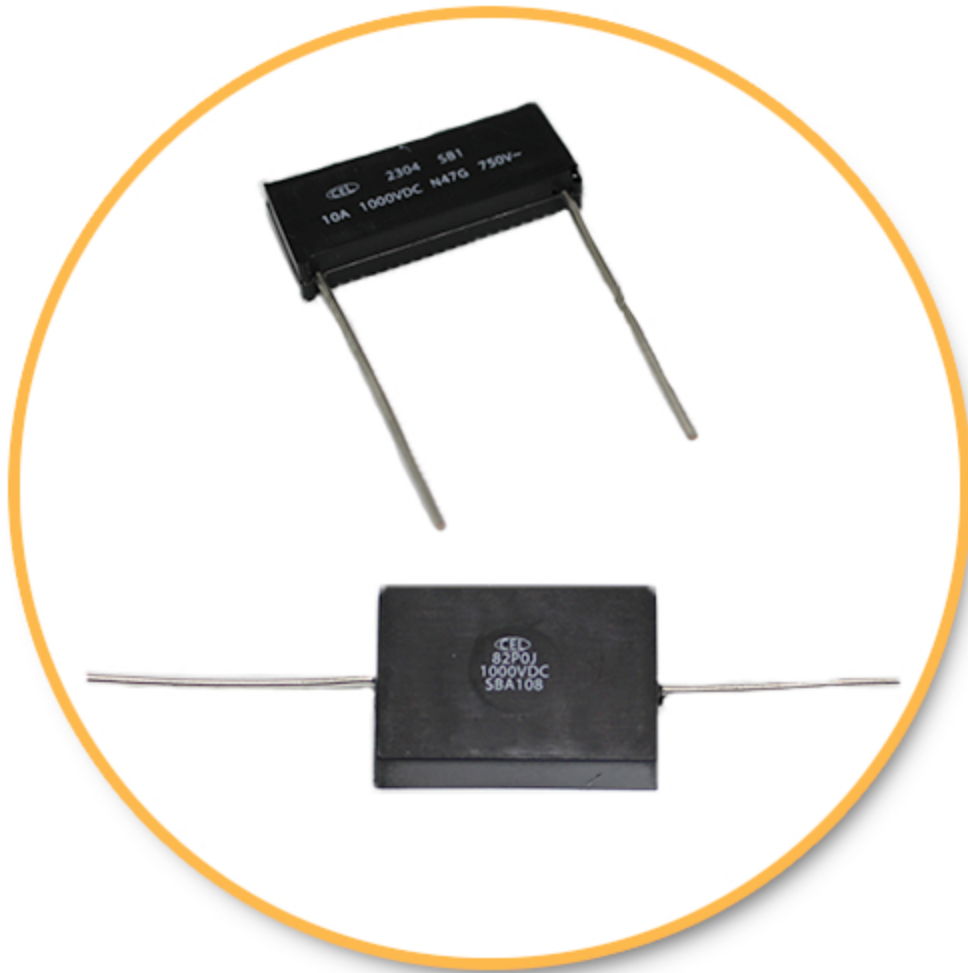




Charcroft SBI & SBA108 HV & HF Capacitors

Quality-led Distribution & Manufacturing

Passives, Power, Interconnect, Emech and more

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ELECTRONICS

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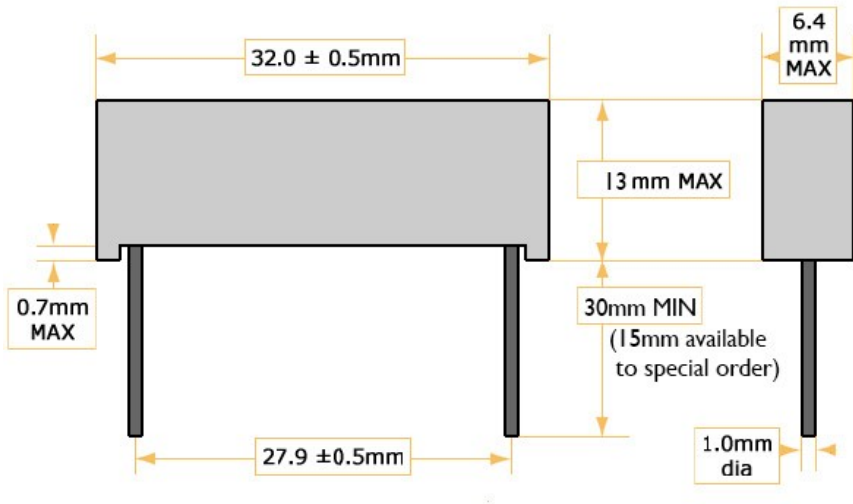
Charcroft: Challenge Accepted

HV & HF Capacitors

SB1 and **SBA108** capacitors utilise high-quality, low loss mica dielectric plates with well controlled thickness of silver-electrodes, resulting in minimised internal heating of the capacitor. Suitable for use in equipment such as RF transmitter filters involving high alternating voltages and high-frequencies.

The high stability of dielectric constant with temperature ensures that the capacitance remains within the stated tolerance over the entire working temperature range. The internal construction of the capacitor ensures that the rated voltage is well below the voltages where ionisation discharges occur.

SB1 Range



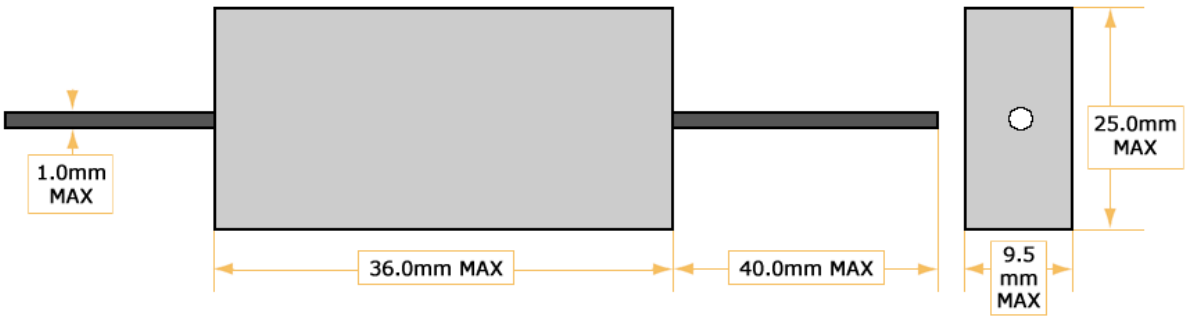
Maximum Voltage		
Capacitance Range (pf)	V_{rms}	V_{wkg}
10 - 600	$750V_{ac}$	$1000V_{dc}$
601 - 950	$500V_{ac}$	$1000V_{dc}$
951 - 3500	$300V_{ac}$	$500V_{dc}$

Dissipation Factor (DF)		Tan(δ)
Capacitance Range (pf)	Frequency	max
10 - 20	1 MHz	0.002
21 - 1000	1 MHz	0.001
>1000	100 KHz	0.001

Working Temperature Range	-55°C up to +125°C (climatic category: -55/125/21)
Tolerance	5, 2, 1% or 1pF whichever is greater (custom available)
Temperature Coefficient of Capacitance	0 to +70 ppm/°C
Operating Frequency	Up to 30MHz
Maximum Current Rating (A.C.)	Under 200pF $8.5A_{rms}$; $\geq 200\text{pF}$ $10A_{rms}$
Maximum Power	2 KVA @ 85°C in free air
Insulation Resistance	100,000 MΩmin @ $500V_{dc}$ +20°C
Proof Voltage (dielectric withstand test)	2x V_{wkg} (for 3s)
Case construction	Black epoxy-resin moulded encapsulant
Terminals	Solder-coated copper-wire terminations

HV & HF Capacitors

SBA108 Range



Maximum Voltage		
Capacitance Range (pf)	V _{rms}	V _{wkg}
10 - 2700	1700V _{ac}	2000V _{dc}
2700 - 10000	300V _{ac}	1000V _{dc}

Temp Coeff	TCC
Capacitance Range (pf)	ppm/°C
<100	±200
100 - 1000	±100
>1000	-20 to +50

Working Temperature Range	-55°C TO +85°C (climatic category: -55/85/21)
Tolerance	5, 2, 1% or 1pF whichever is greater (custom available)
Tan(δ) @1kHz	0.001 MAX
Operating Frequency	Up to 30MHz
Maximum Current Rating (A.C.)	Under 200pF 8.5A _{rms} ; ≥ 200pF 10A _{rms}
Maximum Power	2 KVA _r @85°C in free air
Insulation Resistance	25,000 MΩmin @500V _{dc} +20°C
Proof Voltage (dielectric withstand test)	2.5x V _{wkg} (for 3s)
Case construction	Black epoxy-resin moulded encapsulant
Terminals	Solder-coated copper-wire terminations