



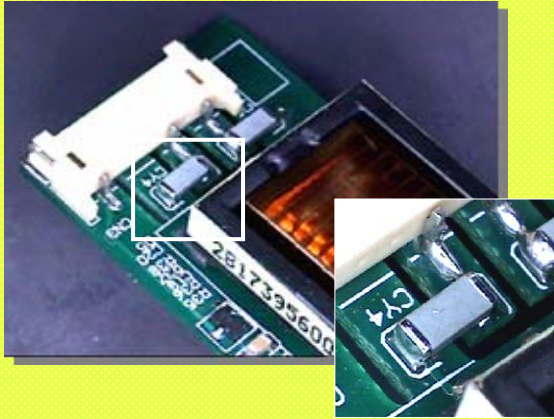
Holy Stone Enterprise Co., Ltd

PCC Series
Ultra High Voltage (3KV to 6KV)



Hi-Voltage Capacitors for Inverter Applications

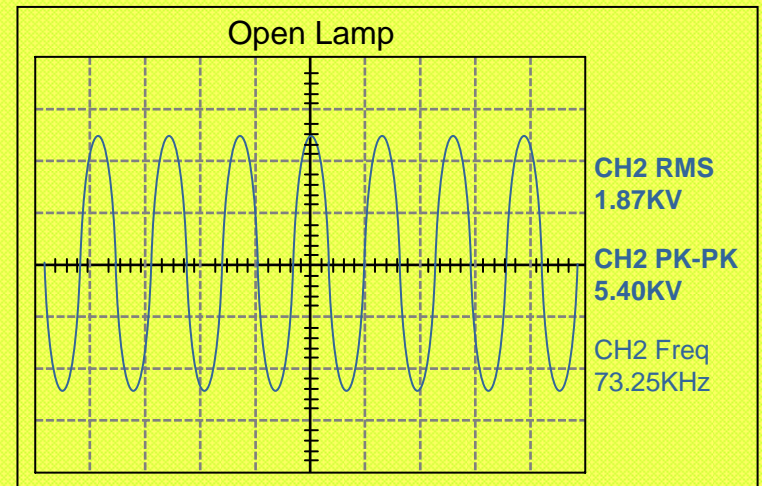
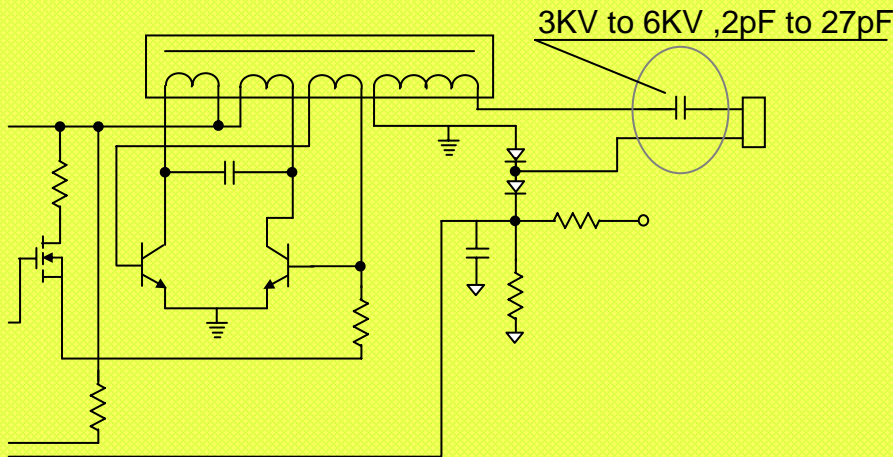
PCC Series



Voltage ratings from 3KV to 6KV for use in LCD backlight inverter circuits and applications

- ❑ Ultra High Voltage
- ❑ High reliability (**Short Circuit Prevention**)
- ❑ Surface mount suited for reflow soldering – replaces leaded disc caps
- ❑ Suitable for LAN/WAN interface, Back-Lighting Inverter , DC-DC Converters, Modems & Power Supply.

Application:





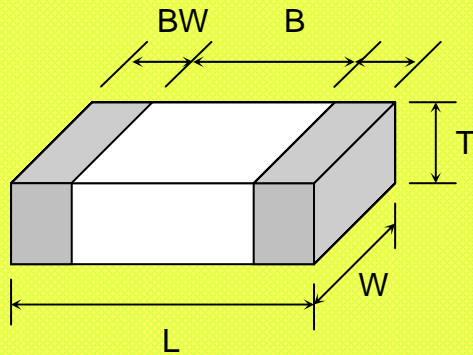
Hi-Voltage Capacitors for Inverter Applications

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◆ Specification Summary:

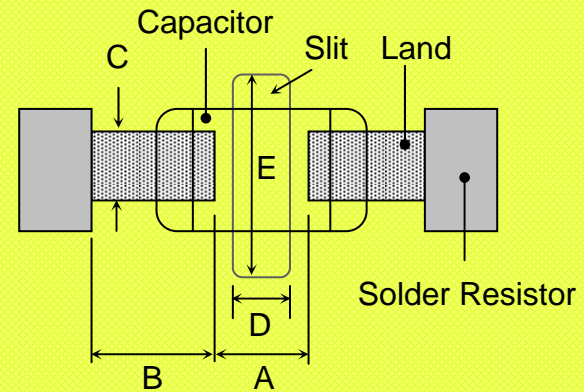
Operation Temperature	-55~+125 °C
Rated Voltage	3KVdc to 6KVdc
Capacitance Deviation	5.0%max. (@ ΔT:60°C)
Capacitance Range	2pF to 27pF
Dielectric Strength	120% Rated Voltage

◆ Dimensions:



EIA Code	1808
L	4.60±0.30 [.181±.012]
W	2.00±0.20[.079±.008]
T (max)	2.20 [.087]
B (min)	2.50 [.098]
BW (min)	0.30 [.012]

◆ Pad Layout:



Code	1808
A	2.8~3.4 mm
B	1.8~2.0 mm
C	1.5~1.8 mm
D	1.0~2.8 mm
E	3.6~4.1 mm



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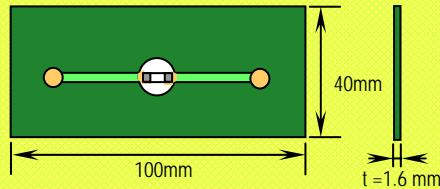
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(1) Comparison to typical high voltage MLCC's:

(a) Substrate Flexure

(b) Breakdown Voltage

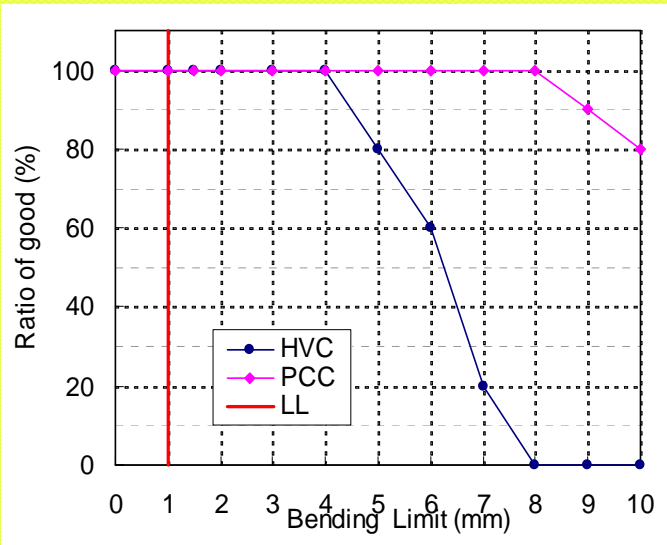
Bending Test



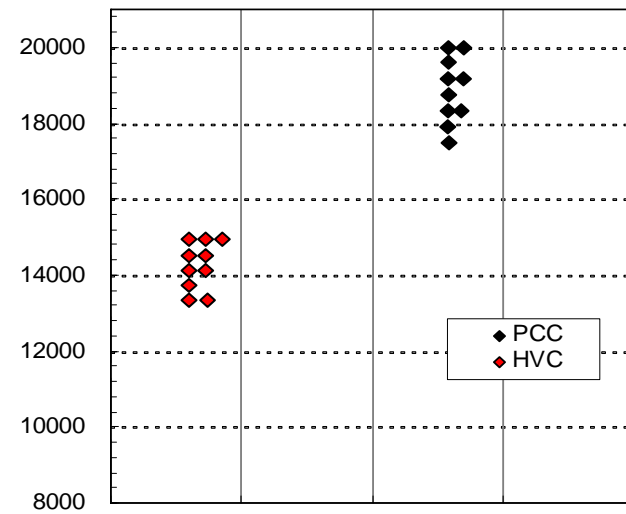
Breakdown Voltage



1808/NPO/6KV v.s. PCC Series



1808/NPO/6KV v.s. PCC Series



→ Improved capability

→ Improved capability



Hi-Voltage Capacitors for Inverter Applications

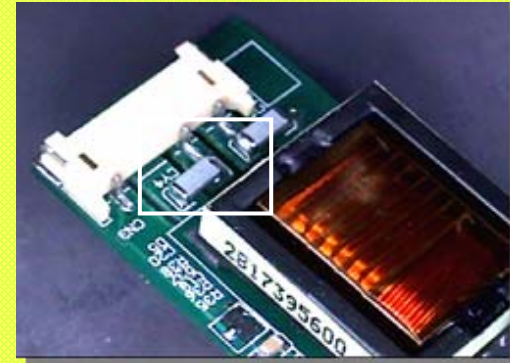
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(2) Comparison with Disc Caps:

(a) Savings compared with through hole engineering costs:



Through Hole



SMD

(b) Lower price compared to typical high voltage MLCC's and similar to disc caps

→ **20% price reduction over standard high voltage products**

