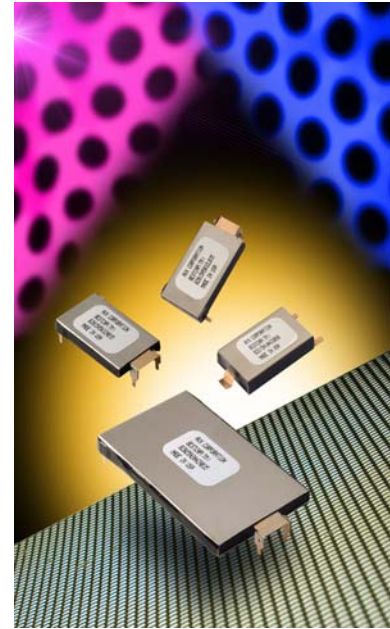


## New Smaller Footprint BestCap®

The BestCap® series of electrochemical supercapacitors offer excellent high power pulse characteristics based upon the combination of very high capacitance and ultra low ESR in the milliohm region.

Based on a unique patented aqueous chemistry and an innovative design, the system offers high capacitance, even with short pulse duration regimes such as in GSM and GPRS based systems.

Used in conjunction with battery packs, BestCap® improves the voltage performance for high current pulses, resulting in higher PA efficiency and longer battery talk-time. BestCap® can also be used to boost instantaneous power availability in non-battery electronic applications where low level constant currents need to be supplemented by high current pulses.



## Characteristics

AVX Catalog Part Number:	BZ094B153ZNBA1-L
Part Size (mm):	17 x 15 x 2.2*
Temperature Range:	-20°C to 70°C
Rated Voltage:	4.5 V
Capacitance (+80%/-20%):	15 mF
Leakage Current:	5 µA Max
ESR (1 kHz, +20%/-50%):	250 mΩ
Label:	Scribed into Case

\* - 2.4 mm Max Height

## Other Applications

RF Modems

Mainframe Computer Decoupling

Memory Back-up

Hybrid Battery Packs

Audio System “Base Line Stiffeners”

Camera Flash Systems

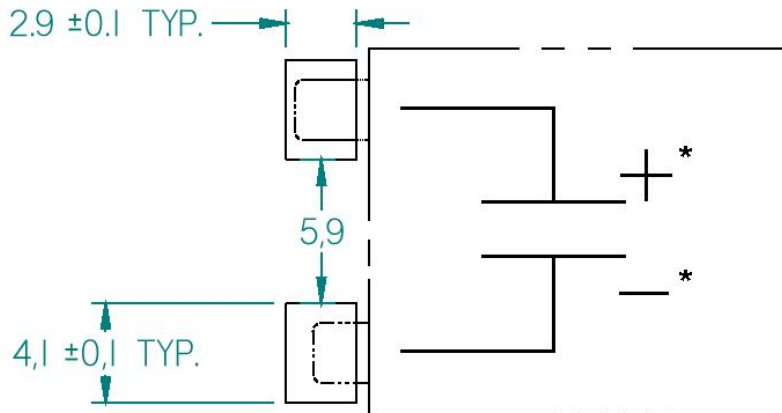
UPS

Switch Mode Power Supplies

Wireless Alarm Systems

Products / Systems based on GSM, DSC1800, PCS, DECT...

Suggested PCB Layout



**NOTE: BestCap is non-polar. However, for applications in which EMI is critical, AVX recommends the indicated polarity.**

Dimensions in mm.



**USA**

AVX Myrtle Beach, SC  
Corporate Offices  
Tel: 843-448-9411  
Fax: 843-448-1943

AVX Northwest, WA  
Tel: 360-669-8746  
Fax: 360-669-8751

AVX North Central, IN  
Tel: 317-848-7153  
Fax: 317-844-9314

AVX Northeast, MA  
Tel: 508-485-8114  
Fax: 508-485-8471

AVX Mid-Pacific, CA  
Tel: 952-974-9155  
Fax: 952-974-9179

AVX Southwest, AZ  
Tel: 480-539-1496  
Fax: 480-539-1501

AVX South Central, TX  
Tel: 972-669-1223  
Fax: 972-669-2090

AVX Southeast, NC  
Tel: 919-878-6357  
Fax: 919-878-6462

AVX Canada  
Tel: 905-564-8959  
Fax: 905-564-9728

**EUROPE**

AVX Limited, England  
European Headquarters  
Tel: ++44 (0)1252 770000  
Fax: ++44 (0)1252 770001

AVX GmbH, Germany – Elco  
Tel: ++49 (0) 2741 2990  
Fax: ++49 (0) 2741 299299

AVX S.A., France  
Tel: ++33 (1) 69.18.46.00  
Fax: ++33 (1) 69.28.73.87

AVX GmbH, Germany  
Tel: ++49 (0) 8131 9004-0  
Fax: ++49 (0) 8131 9004-44

AVX srl, Italy  
Tel: ++390 (0)2 614571  
Fax: ++390 (0)2 614 2576

AVX sro, Czech Republic  
Tel: ++420 (0)467 558111  
Fax: ++420 (0)467 523010

**ASIA-PACIFIC**

AVX/Kyocera, Singapore  
Asia-Pacific Headquarters  
Tel: (65) 258-2833  
Fax: (65) 350-4880

AVX/Kyocera, China  
Tel: (86) 21-6249-0314-16  
Fax: (86) 21-6249-0313

AVX/Kyocera, Hong Kong  
Tel: (852) 2-363-3303  
Fax: (852) 2-765-8185

AVX/Kyocera, Malaysia  
Tel: (60) 4-228-1190  
Fax: (60) 4-228-1196

AVX/Kyocera, Korea  
Tel: (82) 2-785-6504  
Fax: (82) 2-784-5411

AVX/Kyocera, Taiwan  
Tel: (886) 2-2696-4636  
Fax: (886) 2-2696-4237

Elco, Japan  
Tel: 045-943-2906/7  
Fax: 045-943-2910

Kyocera, Japan – AVX  
Tel: (81) 75-604-3426  
Fax: (81) 75-604-3425

Kyocera, Japan – KDP  
Tel: (81) 75-604-3424  
Fax: (81) 75-604-3425