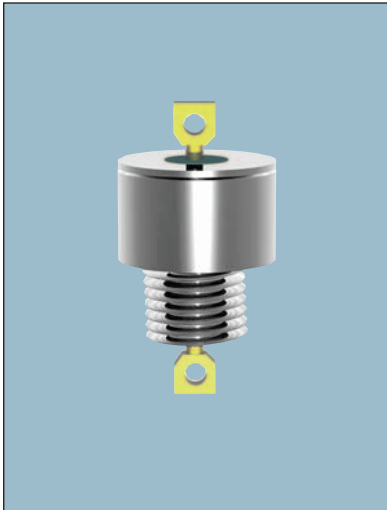


# Cylindrical Style EMI Filters

## CK Series – .375 Dia. – Button Hermetically Sealed –

### Circuits Available – C & L



## APPLICATIONS

The CK series offers effective filtering from 100 KHz to 10 GHz. Glass sealed for hermeticity, this medium profile series is impervious to high moisture, solvents, or other severe environmental conditions commonly encountered in military applications. It is designed for bulkhead mounting in a slotted hole with nut and lockwasher supplied. This series is ideal for low to medium impedance circuits where large amounts of capacitance to

ground can be tolerated. In the “L” section version an internal ferrite bead element provides both inductance and series resistance (lossy characteristic) which improves insertion loss and provides superior transient performance.

Alternate lead configurations or special capacitance values may be ordered.

Custom packages or filter arrays utilizing the CK series can be furnished.

## CHARACTERISTICS

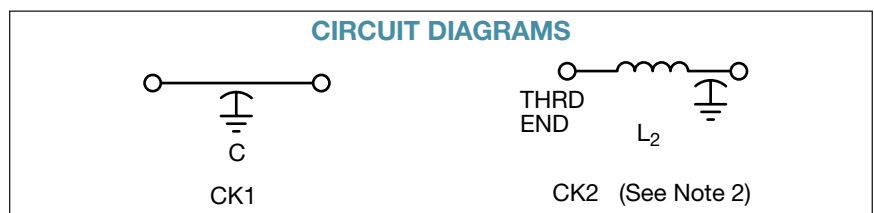
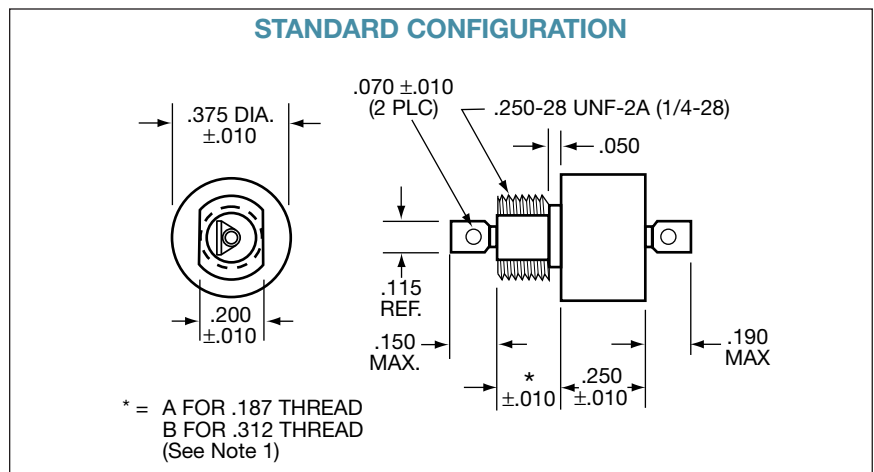
- Meets or exceeds the applicable requirements of MIL-F-15733, and the environmental/test requirements of MIL-F-28861.
- Glass hermetic seal on both ends.
- Internal ferrite bead provides inductance

for the L-section version.

- High DC current rating: 15 Amps.
- High capacitance values available.
- Conservatively rated for 125 VAC/400 Hz in certain values.

## SPECIFICATIONS

- Case/Terminal Plating:  
Electro-tin standard –  
Silver or gold available
- Material:  
Case: Brass standard – Steel available  
End Seal: Mild steel  
Terminals: Nickel-iron alloy
- Operating Temperature Range:  
-55°C to +125°C
- Electrical Characteristics:
  - Rated Voltage: See chart
  - Insulation Resistance:  
At 25°C: 1,000 megohm-microfarad min.,  
or 50,000 megohms min.,  
whichever is less, at the rated  
DC voltage  
At 125°C: 100 megohm-microfarad  
min., or 5,000 megohms  
min., whichever is less
  - Dielectric Withstanding Voltage (DWV):  
R-level designs:  
2.0 times rated DC voltage  
Class B, Class S designs:  
2.5 times rated DC voltage
  - Capacitance: Values listed in chart are  
“guaranteed minimum value” (GMV)
- Marking:  
Standard Marking: AVX, AVX part number,  
rated current, voltage, lot code  
B. CK2 only: Letter “L” to denote ferrite bead  
inductor at threaded end  
C. See Reliability Codes section for definition  
of Reliability Level marking. See How to  
Order section for part number construc-  
tion.
- Installation:
  - Mounting Torque: 44 oz-in. ± 4 oz-in.
  - Refer to “Installation, Handling, Hardware  
Options” section of the catalog.



### millimeters (inches)

|             |             |
|-------------|-------------|
| 0.25 (.010) | 4.83 (.190) |
| 1.27 (.050) | 5.08 (.200) |
| 1.78 (.070) | 6.35 (.250) |
| 2.92 (.115) | 7.93 (.312) |
| 3.81 (.150) | 9.53 (.375) |
| 4.75 (.187) | —           |

(See Note 3)

### Notes:

- Thread length option.  
EXAMPLE: CK1CA-103  
(.187 thrd. L)  
CK1CB-103  
(.312 thrd. L).
- All CK2 L-Section Filters  
have inductor (bead) at  
threaded end.
- Metric equivalent dimen-  
sions given for informa-  
tion only.

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## SPECIFICATIONS

| AVX<br>P/N | Current<br>AMP | CKT | CAP <sup>1</sup> | DC<br>Voltage | Insertion Loss <sup>2</sup> Per MIL-STD-220, +25°C |            |            |          |           |            |          |
|------------|----------------|-----|------------------|---------------|----------------------------------------------------|------------|------------|----------|-----------|------------|----------|
|            |                |     |                  |               | 30<br>KHz                                          | 150<br>KHz | 500<br>KHz | 1<br>MHz | 10<br>MHz | 100<br>MHz | 1<br>GHz |
| CK1CA-754  | 15             | C   | .75              | 50            | 11                                                 | 24         | 30         | 40       | 40        | 64         | 70       |
| CK1CA-105  | 15             | C   | 1.0              | 50            | 12                                                 | 24         | 30         | 40       | 40        | 65         | 70       |
| CK1CA-145  | 15             | C   | 1.4              | 50            | 15                                                 | 28         | 33         | 40       | 40        | 70         | 70       |
| CK1CA-205  | 15             | C   | 2.0              | 50            | 16                                                 | 30         | 35         | 43       | 45        | 70         | 70       |
| CK2CA-754  | 15             | L2  | .75              | 50            | 11                                                 | 24         | 30         | 40       | 40        | 64         | 70       |
| CK2CA-105  | 15             | L2  | 1.0              | 50            | 12                                                 | 24         | 30         | 40       | 40        | 65         | 70       |
| CK2CA-145  | 15             | L2  | 1.4              | 50            | 15                                                 | 28         | 33         | 40       | 40        | 70         | 70       |
| CK2CA-205  | 15             | L2  | 2.0              | 50            | 16                                                 | 30         | 35         | 43       | 45        | 70         | 70       |
| CK1AA-504  | 15             | C   | .5               | 100           | –                                                  | 16         | 26         | 34       | 42        | 58         | 70       |
| CK1AA-754  | 15             | C   | .75              | 100           | 11                                                 | 24         | 30         | 40       | 40        | 64         | 70       |
| CK1AA-105  | 15             | C   | 1.0              | 100           | 12                                                 | 24         | 30         | 40       | 40        | 65         | 70       |
| CK1AA-185  | 15             | C   | 1.8              | 100           | 15                                                 | 28         | 33         | 41       | 45        | 70         | 70       |
| CK2AA-504  | 15             | L2  | .5               | 100           | –                                                  | 16         | 26         | 36       | 44        | 60         | 70       |
| CK2AA-754  | 15             | L2  | .75              | 100           | 11                                                 | 24         | 30         | 40       | 40        | 64         | 70       |
| CK2AA-105  | 15             | L2  | 1.0              | 100           | 12                                                 | 24         | 30         | 40       | 40        | 65         | 70       |
| CK2AA-185  | 15             | L2  | 1.8              | 100           | 15                                                 | 28         | 33         | 41       | 45        | 70         | 70       |
| CK1BA-103  | 15             | C   | .01              | 200           | –                                                  | –          | –          | 2        | 20        | 40         | 55       |
| CK1LA-753  | 15             | C   | .075             | 200*          | –                                                  | –          | 7          | 18       | 37        | 46         | 70       |
| CK1BA-104  | 15             | C   | .1               | 200           | –                                                  | –          | 14         | 24       | 38        | 50         | 70       |
| CK1LA-154  | 15             | C   | .15              | 200*          | –                                                  | 10         | 16         | 26       | 40        | 52         | 70       |
| CK1BA-304  | 15             | C   | .3               | 200           | –                                                  | 15         | 23         | 32       | 40        | 56         | 70       |
| CK1BA-504  | 15             | C   | .5               | 200           | 6                                                  | 19         | 25         | 36       | 40        | 58         | 70       |
| CK2BA-103  | 15             | L2  | .01              | 200           | –                                                  | –          | –          | 2        | 20        | 40         | 55       |
| CK2LA-753  | 15             | L2  | .075             | 200*          | –                                                  | –          | 7          | 18       | 37        | 51         | 70       |
| CK2BA-104  | 15             | L2  | .1               | 200           | –                                                  | –          | 14         | 24       | 38        | 50         | 70       |
| CK2LA-154  | 15             | L2  | .15              | 200*          | –                                                  | 10         | 16         | 26       | 40        | 52         | 70       |
| CK2BA-304  | 15             | L2  | .3               | 200           | –                                                  | 15         | 23         | 32       | 40        | 56         | 70       |
| CK2BA-504  | 15             | L2  | .5               | 200           | 6                                                  | 19         | 25         | 36       | 40        | 60         | 70       |

\* Also rated 125 VAC/400 Hz

<sup>1</sup> Decimal point values indicate capacitance in microfarads.  
Non-decimal point values indicate capacitance in picofarads.

<sup>2</sup> Insertion loss limits are based on theoretical values.  
Actual measurements may vary due to internal capacitor  
resonances and other design constraints.