Models B16 & L16 Ruggedized

MIL-I-8974 Equivalent Part Numbers	
Mil Spec	L-3 EDI Commercial
M8974/2-003*	B16C8A-232
M8974/2-004*	B16C8CE-232

*MIL Spec numbers are no longer available

The Electrodynamics subminiature event counters were designed to meet the most difficult requirements of many military and aerospace applications. These rugged counters meet or exceed an array of tough environmental specifications including shock, vibration, temperature and are packaged in a hermetically sealed miniature enclosure. A variety of mounting configurations are available as shown on pages 78 and 79. We also welcome inquires for special requirements.

The ruggedized event counters are assembled and filled with a dielectric lubricant that dampens the effects of extreme vibration and thermal shock.

FEATURES

- Rugged design
- · Hermetically sealed

MECHANICAL SPECIFICATIONS

Case: Copper-nickel or brass, with black face. E and F mounts are nickel-plated case with black face.

Max. case length: 1.094 in.

Flange: Brass

Terminals: Solder hook

Weight: Standard: Will not exceed 1.2 ounces with C flange Ruggedized: Will not exceed 1.8 ounces with C flange

Numerals: .035" wide, .078" high. All digits are white on black

ORDERING INFORMATION

When ordering, show model number first (B), then operating voltage, case type, maximum counts (4 or 5 digit), mount type, and mount setback desired. If this is a special part, a factory modification number will be added at the end of the ordering number. This order chart lists standard features. Other ratings and configurations are also available. Example: B16C8CE-1







ELECTRICAL SPECIFICATIONS

Polarity: Not polarity sensitive Dielectric: 500 VRMS @ 80,000 feet Insulation Resistance: MIL-STD-202, Method 302, Condition B

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range: Standard: -65 to +125°C Ruggedized: -55 to +125°C

STANDARD RATINGS

Count Rate: 5 Counts/Second

Minimum Impulse Time: 50ms / 150ms off

Thermal Shock: MIL-STD-202, Method 107, Condition B

Shock: MIL-STD-202, Method 213, Condition A

Vibration: MIL-STD-202, Method 204, Condition D except at 10 Gs max.

Life: One million counts @ 25°C

RUGGEDIZED RATINGS

Count Rate: 5 Counts/Second

Minimum Impulse Time: 50ms / 150ms off

Thermal Shock: MIL-STD-202, Method 107, Condition B, except temperature -55 °C to +°125 C

Shock: MIL-STD-202, Method 213, Condition A

Vibration: MIL-STD-202, Method 204, Condition D

Life: 5 million counts @ 25°C

POWER CONSUMPTION (for Standard & Ruggedized):

4 digit oil filled: 3.4 Watts max. @ 28VDC

- 4 digit dry: 1.5 Watts max. @ 28VDC 5 digit oil filled: 3.4 Watts max. @ 28VDC
- 5 digit dry: 2.5 Watts max. @ 28VDC
- 6 digit dry: 2.5 Watts max. @ 28VDC

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5-DIGIT

±.015 (TYP)

HOURS

HOURS AND

TENTHS

1.250

INDICATOR

C & C7 MOUNTS

C ± .015

E Mount F Mount

1.375

1.000

C Mount

C7 Mount

Standard Cases & Mounts



*When mounting flanged units, it is recommended to distribute the mounting torque evenly across the mounting surface. Each mounting screw should be alternately tightened about one quarter to one half turn until the recommended torque is attained on each screw. The mounting surface should be flat to avoid exerting stress on the body of the unit.

C7 4-40 NC 2B Tapped (TYP 2-Holes)

Figure 8.

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Figure 7. C2 ADJUSTABLE MOUNT

1.328 max

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Standard Cases & Mounts





M7793/10

Standard and Straight Pin Headers

M7793/9



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