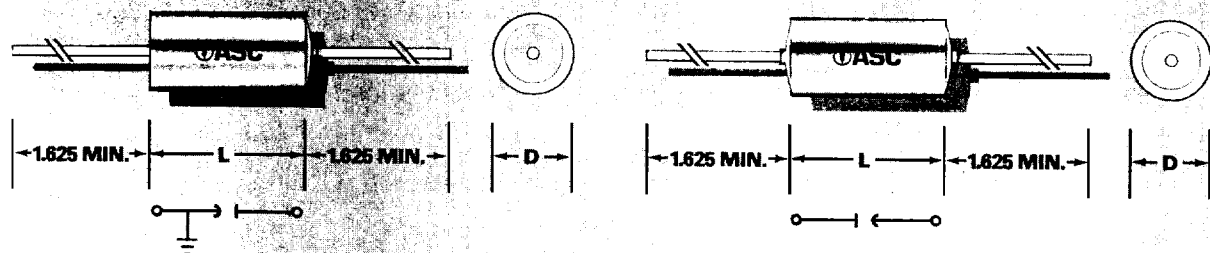


## Types X482- X483

Metallized Polycarbonate Capacitors  
Metal Enclosed  
Hermetically Sealed Case



- Unequaled Small Size
- Fully Rated to 125°C
- Excellent Stability
- High Insulation Resistance
- Capacitance Tolerances:  
± 10%, ± 5%, ± 2%, ± 1%

### Physical Characteristics

#### Construction:

Non-inductive wound metallized polycarbonate.

#### Case:

Hermetically sealed metal enclosed.

#### Lead Material:

Solder coated or tinned solid wire.

#### Lead Strength:

Capable of withstanding a five (5#) pound pull force on lead axis.

#### Marking to include:

Logo  
Capacitance  
Tolerance  
Voltage

When space permits, capacitor type and EIA Date Code will be marked.

### X483 Nominal Dimensions Per Table 1

For X482 Nominal Dimensions:  
Diameter ("D") per TABLE I.  
Length ("L")—Subtract .063 from the X483 Length ("L") in TABLE I.

#### Dimensional Tolerances:

Diameter Tolerance: +.015/- .005  
Length Tolerance: +.032/- .032

#### Lead Wire Gauge:

24 AWG (.020)—.175 thru .195 Diameter ("D") Range  
22 AWG (.025)—.235 thru .312 Diameter ("D") Range  
20 AWG (.032)—.400 and above Diameter ("D") Range

### Insulated Case Nominal Dimensions & Tolerances

#### For insulated case Nominal Dimensions

Diameter: Add .020 to Diameter ("D") in TABLE I  
Length: Add .063 to Length ("L") in TABLE I

#### Insulated case Dimensional Tolerances

Diameter Tolerance: ± .015  
Length Tolerance: ± .063

### Applications

**Severe Environments:** Since the X482 and X483 combine small size and light weight with maximum protection against severe environmental conditions, they are a logical choice for Space, Radiation, Shipboard, Arctic or Tropic applications. Their hermetically sealed metal cases provide environmental protection to meet or exceed the requirements of MIL-C-39022 and MIL-C-19978, and their sound design renders them capable of being produced, on a "project" basis, to special high reliability requirements. The amount of premium cost of such requirements will vary with the level of reliability performance required and the lot acceptance testing specified.

**Close Tolerance:** The excellent TC and long term stability characteristics of these types make them especially suitable where close initial tolerances are needed.

**Critical Circuits:** Types X482 and X483 exhibit low dielectric absorption and excellent retrace; therefore they are well suited to computer, timing, filter and other critical circuits which may operate to 125°C.

See Standard Capacitor DV/DT Ratings in Beginning of Catalog

Metallized Polycarbonate Capacitors **Types X482-  
Metal Enclosed X483**  
Hermetically Sealed Case

**TABLE I—X483 NOMINAL DIMENSIONS**

CAP MFD	50 Vdc		100 Vdc		200 Vdc		400Vdc	
	D	L	D	L	D	L	D	L
.0010	.175	.563	.175	.563	.175	.563	.235	.625
.0012	.175	.563	.175	.563	.175	.563	.235	.625
.0015	.175	.563	.175	.563	.175	.563	.235	.625
.0018	.175	.563	.175	.563	.175	.563	.235	.625
.0022	.175	.563	.175	.563	.175	.563	.235	.625
.0027	.175	.563	.175	.563	.175	.563	.235	.625
.0033	.175	.563	.175	.563	.175	.563	.235	.625
.0039	.175	.563	.175	.563	.175	.563	.235	.625
.0047	.175	.563	.175	.563	.175	.563	.235	.625
.0056	.175	.563	.175	.563	.175	.563	.235	.625
.0068	.175	.563	.175	.563	.175	.563	.235	.625
.0082	.175	.563	.175	.563	.175	.563	.235	.625
.010	.175	.563	.175	.563	.175	.625	.235	.688
.012	.175	.563	.175	.563	.175	.625	.235	.813
.015	.175	.563	.175	.563	.175	.625	.235	.813
.018	.175	.563	.175	.563	.195	.625	.235	.813
.022	.175	.563	.175	.563	.195	.625	.312	.688
.027	.175	.563	.175	.625	.235	.625	.312	.813
.033	.175	.563	.175	.625	.235	.688	.312	.813
.039	.175	.563	.175	.625	.235	.688	.312	.938
.047	.175	.563	.195	.625	.235	.688	.400	.813
.056	.175	.563	.195	.625	.312	.625	.400	.813
.068	.175	.625	.235	.625	.312	.625	.400	.938
.082	.175	.625	.235	.625	.312	.688	.400	.938
.10	.175	.625	.235	.688	.312	.688	.400	1.063
.12	.175	.625	.235	.688	.312	.813	.400	1.313
.15	.195	.625	.312	.625	.312	.813	.400	1.313
.18	.195	.625	.312	.625	.400	.668	.562	1.063
.22	.235	.625	.312	.688	.400	.813	.562	1.063
.27	.235	.625	.312	.688	.400	.813	.562	1.313
.33	.312	.625	.312	.813	.400	.938	.562	1.563
.39	.312	.625	.312	.813	.400	1.063	.562	1.563
.47	.312	.625	.400	.688	.400	1.063	.562	1.813
.56	.312	.625	.400	.813	.500	1.063	.670	1.563
.82	.312	.813	.400	.938	.562	1.063	.750	1.813
1.0	.312	.938	.400	1.063	.562	1.313	.750	2.063
1.25	.400	.813	.400	1.063	.562	1.313	.750	2.313
1.5	.400	.813	.500	1.063	.562	1.563	1.000	1.813
2.0	.400	.938	.562	1.063	.670	1.563	1.000	2.063
3.0	.400	1.063	.562	1.313	.670	1.813	—	—
4.0	.500	1.063	.562	1.563	.750	1.813	—	—
5.0	.562	1.063	.670	1.313	.750	2.313	—	—
8.0	.562	1.313	.750	1.813	1.000	2.063	—	—
10.0	.670	1.313	.750	2.063	1.000	2.563	—	—

**Example of How to Order**

1.	2.	3.	4.	5.
Type	Capacitance	Tolerance	Voltage	Case Style
X483W4	.082	± 10%	200Vdc	Style 4

**See Packaging Section For All Options**

**Consult Factory For Other Values, Voltages and Tolerances**