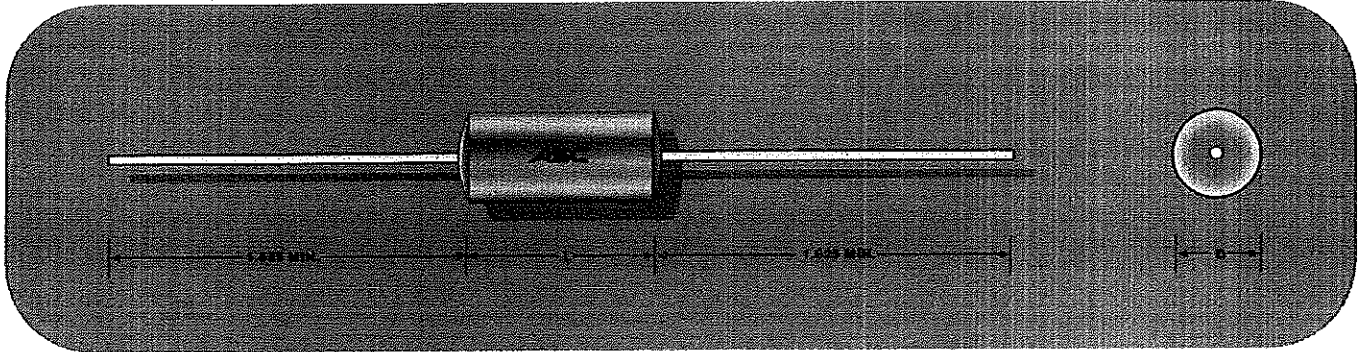


**Metallized Polycarbonate Capacitors
Wrap And Fill Case**



- **Flame Retardant Encapsulation**
- **Improved Moisture Resistance**
- **Small Size—Lightweight**
- **Very Low Temperature Coefficient**
- **Fully Rated From -55° To +125°C**
- **High Insulation Resistance**
- **Excellent Retrace**
- **Capacitance Tolerances:**
±10%, ±5%, ±2%, ±1%

Physical Characteristics

Construction:
Non-inductive wound metallized polycarbonate.

Case:
Flame retardant polyester tape wrap and epoxy endfill to UL 94.

Lead Material:
Solder coated or tinned solid wire.

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

**NOMINAL DIMENSIONS
PER TABLE 1**

Dimensional Tolerances:

For Maximum Diameter: Add the following to Table I "D" Dimension

- Add .032 for .000 thru .250 Diameter Range
- Add .047 for .251 thru .350 Diameter Range
- Add .063 for .351 thru .450 Diameter Range
- Add .094 for .451 thru .550 Diameter Range
- Add .125 for .551 thru .650 Diameter Range
- Add .156 for .651 thru .750 Diameter Range
- Add .188 for .751 and above Diameter Range

Length Tolerance (excluding epoxy endfill lead meniscus): +.094/-.063

Lead Wire Gauge:

- 24 AWG (.020)—.438 thru .563 Length ("L") Range
- 22 AWG (.025)—.688 thru .813 Length ("L") Range
- 20 AWG (.032)—1.00 thru 1.50 Length ("L") Range
- 18 AWG (.040)—1.688 and above Length ("L") Range

Applications

Military Use:

In addition to use in commercial and instrument grade products, Type X463 may be used in a wide variety of military items where hermetic sealing is not an absolute requirement. All versions of Type X463 are well suited for use in potted assemblies.

Weight Savings:

Metallized polycarbonate capacitors offer appreciable weight savings over conventional types with equivalent ratings. This feature has particular value in lightweight, portable pack sets and in airborne equipment of all types.

Capacitance Stability:

Tests continued for 10,000 hours under rated operating conditions show that only negligible drift in capacitance and dissipation factor is encountered in these designs.

Precision Test Equipment:

Test and measuring devices of high precision often require temperature stable capacitors. The low dielectric absorption and extremely high IR of Type X463 also account for its use in instruments of this caliber.

Marking To Include:

- ASC Logo
- Capacitance
- Tolerance
- Voltage

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

See pages 64 and 65 for general polycarbonate characteristics not specified herein

Metallized Polycarbonate Capacitors Wrap And Fill Case

TABLE I—NOMINAL DIMENSIONS

CAP MFD	50 VDC		100 VDC		200 VDC		400 VDC	
	D	L	D	L	D	L	D	L
.0010	.156	.438	.156	.438	.156	.438	.156	.438
.0012	.156	.438	.156	.438	.156	.438	.156	.438
.0015	.156	.438	.156	.438	.156	.438	.156	.438
.0018	.156	.438	.156	.438	.156	.438	.156	.438
.0022	.156	.438	.156	.438	.156	.438	.156	.438
.0027	.156	.438	.156	.438	.156	.438	.156	.438
.0033	.156	.438	.156	.438	.156	.438	.188	.438
.0039	.156	.438	.156	.438	.156	.438	.188	.438
.0047	.156	.438	.156	.438	.156	.438	.203	.438
.0056	.156	.438	.156	.438	.156	.438	.219	.438
.0068	.156	.438	.156	.438	.156	.438	.219	.438
.0082	.156	.438	.156	.438	.156	.438	.203	.563
.010	.156	.438	.156	.438	.172	.438	.219	.563
.012	.156	.438	.156	.438	.188	.438	.234	.563
.015	.156	.438	.156	.438	.203	.438	.250	.563
.018	.156	.438	.156	.438	.219	.438	.266	.563
.022	.156	.438	.156	.438	.234	.438	.297	.563
.027	.156	.438	.156	.438	.250	.438	.250	.688
.033	.156	.438	.172	.438	.266	.438	.297	.688
.039	.156	.438	.188	.438	.219	.563	.312	.688
.047	.156	.438	.203	.438	.234	.563	.328	.688
.056	.156	.438	.219	.438	.250	.563	.359	.688
.068	.172	.438	.234	.438	.266	.563	.328	.813
.082	.188	.438	.187	.563	.297	.563	.359	.813
.10	.203	.438	.203	.563	.250	.688	.391	.813
.12	.219	.438	.219	.563	.266	.688	.438	.813
.15	.219	.438	.234	.563	.297	.688	.438	1.000
.18	.234	.438	.250	.563	.328	.688	.469	1.000
.22	.203	.563	.266	.563	.344	.688	.516	1.000
.27	.203	.563	.281	.688	.344	.813	.562	1.000
.33	.219	.563	.312	.688	.359	.813	.547	1.250
.39	.234	.563	.328	.688	.391	.813	.594	1.250
.47	.250	.563	.359	.688	.421	.813	.641	1.250
.56	.266	.563	.375	.688	.421	1.000	.625	1.500
.68	.266	.688	.344	.813	.453	1.000	.672	1.500
.82	.281	.688	.359	.813	.484	1.000	.750	1.500
1.0	.312	.688	.391	.813	.531	1.000	.718	1.813
1.25	.328	.688	.422	.813	.500	1.250	.812	1.813
1.5	.359	.688	.453	.813	.547	1.250	.906	1.813
1.8	.344	.813	.453	1.000	.594	1.250	.984	1.813
2.0	.344	.813	.500	1.000	.625	1.250	.875	2.313
3.0	.406	.813	.547	1.250	.656	1.500	1.062	2.313
4.0	.453	.813	.625	1.250	.750	1.500	—	—
5.0	.469	1.000	.593	1.500	.750	1.813	—	—
8.0	.500	1.250	.641	1.813	.828	2.313	—	—
10.0	.547	1.250	.703	1.813	.922	2.313	—	—

Consult Factory For Other Values, Voltages And Tolerances

Example Of How To Order

1.	2.	3.	4.
Type	Capacitance	Tolerance	Voltage
X463	.082	±10%	100 VDC