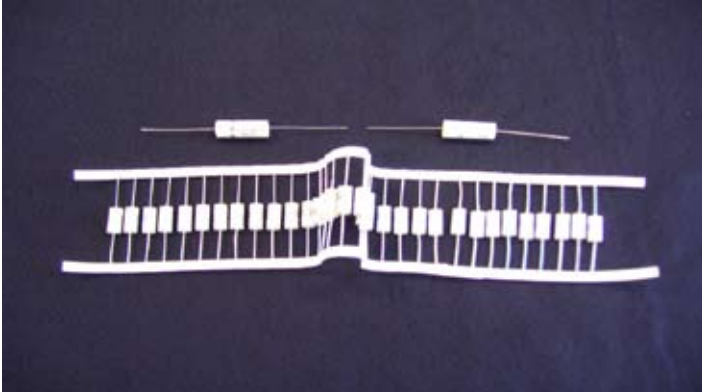


## Types AREM, AFEO Round and Flat Axial Leaded Capacitors

### Axial Leaded Wrap & Fill Metallized Polyester

### RoHS Compliant



Types AREM and AFEO are axial leaded metallized polyester capacitors for general purpose use in blocking, coupling and filtering applications. They offer a high CV value for such a small size.

### Highlights

- High CV for small size
- Bulk or T&R for AREM; bulk for AFEO
- UL 94 VO and IEC 695-2-2

### Specifications

<b>Capacitance Range:</b>	.001 $\mu$ F to 20.0 $\mu$ F
<b>Voltage Range:</b>	63 Vdc (40 Vac) to 630 Vdc (220 Vac)
<b>Capacitance Tolerance:</b>	$\pm$ 10% (K) Standard; $\pm$ 5% (J) Special
<b>Operating Temperature Range:</b>	-55 °C +125 °C Full rated voltage @ 85°C - derate linearly to 50% rated voltage at 125 °C
<b>Dissipation Factor (DF)</b>	$\leq$ 0.8% @ 1 kHz
<b>Dielectric Absorption:</b>	.30% typical

### Insulation Resistance:

Category	$\leq$ 100Vdc	>100Vdc
MegOhms $\times \leq \mu$ F	1,000	5,000
MegOhms Maximum - Need not exceed	10,000	30,000
Test voltage	50 Vdc	100 Vdc
Electrification Time	1 Min.	1 Min

**Accelerated Dry life:** 1.25 x rated Vdc @ 85 °C for 1000 hours; delta of  $\leq$  5.0%; DF  $\leq$  1.0% @ 1 kHz; IR  $\geq$  30% of initial limit

**Humidity:** Zero voltage @ 40 °C  $\pm$  2 °C; 93%  $\pm$  2% RH for 500 hr; Capacitance delta  $\leq$  5.0%; DF  $\leq$  1.0% @ 1kHz; IR 50% of initial limit

**Resistance To Solder Heat:** Solder Temperature 260 °C  $\pm$  5 °C for 10 sec  $\pm$  1 sec; capacitance delta  $\leq$  2.0%

**Lead Pull:** Must withstand a tensile force of 5 lbs applied to each lead for 5 seconds

**Long Term Stability:** +2.0% (AREM), +1.5% (AFEO) over two years at a temperature of between 20 °C & 40 °C and RH of between 40% and 60%

## Type AREM Round Metallized Polyester

### Ratings

### RoHS Compliant

Cap (µF)	Catalog Part Number	Dimensions D x L Inches (mm)	Case Code	AWG d Inches. (mm)
<b>63 Vdc (40 Vac)</b>				
.15	AREM15406KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.22	AREM22406KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.33	AREM33406KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.47	AREM47406KEEKZZ	.276x.650 (7x16.5)	EE	.025 (7)
.68	AREM68406KEIKZZ	.276x.807 (7x20.5)	EI	.025 (7)
1.0	AREM10506KGIKZZ	.315x.807 (8x20.5)	GI	.032 (8)
1.5	AREM15506KJKKZZ	.374x.807 (9.5x20.5)	JI	.032 (8)
2.2	AREM22506KJOKZZ	.374x1.10 (9.5x28)	JO	.032 (8)
3.3	AREM33506KKOKZZ	.394x1.10 (10x28)	KO	.032 (8)
4.7	AREM47506KPOKZZ	.512x1.10 (13x28)	PO	.032 (8)
6.8	AREM68506KOPKZZ	.472x1.30 (12x33)	OP	.032 (8)
10	AREM10606KTPKZZ	.571x1.30 (14.5x33)	TP	.032 (8)
<b>100 Vdc (63 Vac)</b>				
.068	AREM68310KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.10	AREM10410KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.15	AREM15410KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.22	AREM22410KDEKZZ	.256x.650 (6x16.5)	DE	.025 (7)
.33	AREM33410KFEKZZ	.295x.650 (7.5x16.5)	FE	.032 (8)
.47	AREM47410KGEKZZ	.315x.650 (8x16.5)	GE	.032 (8)
.68	AREM68410KHIKZZ	.335x.807 (8.5x20.5)	HI	.032 (8)
1.00	AREM10510KKIKZZ	.394x.807 (10x20.5)	KI	.032 (8)
1.50	AREM15510KKOKZZ	.394x1.10 (10x28)	KO	.032 (8)
2.20	AREM22510KNOKZZ	.453x1.10 (11.5x28)	NO	.032 (8)
3.30	AREM33510KPOKZZ	.512x1.10 (13x28)	PO	.032 (8)
4.70	AREM47510KRPKZZ	.512x1.30 (13x33)	RP	.032 (8)
6.80	AREM68510KWPKZZ	.630x1.30 (16x33)	WP	.032 (8)
10.00	AREM10610K2PKZZ	.729x1.30 (18.5x33)	2P	.040 (1.02)
<b>250 Vdc (160 Vac)</b>				
.015	AREM15325KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.022	AREM22325KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.033	AREM33325KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.047	AREM47325KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.068	AREM68325KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.10	AREM10425KDEKZZ	.256x.650 (6x16.5)	DE	.025 (7)
.15	AREM15425KFEKZZ	.296x.650 (7.5x16.5)	FE	.032 (8)
.22	AREM22425KHEKZZ	.335x.650 (8.5x16.5)	HE	.032 (8)
.33	AREM33425KGFKZZ	.312x.750 (8x19)	GF	.032 (8)
.47	AREM47425KIFKZZ	.354x.750 (9x19)	IF	.032 (8)
.68	AREM68525KIOKZZ	.354x1.10 (9x28)	IO	.032 (8)
1.00	AREM10525KLOKZZ	.431x1.10 (10.5x28)	LO	.032 (8)
1.50	AREM15525KOOKZZ	.472x1.10 (16x46)	OO	.032 (8)
2.20	AREM22525KPOKZZ	.512x1.10 (13x28)	PO	.032 (8)
3.30	AREM33525KWPKZZ	.630x1.30 (16x33)	WP	.032 (8)

Cap (µF)	Catalog Part Number	Dimensions D x L Inches (mm)	Case Code	AWG d Inches (mm)
<b>250 Vdc (160 Vac)</b>				
4.70	AREM47525KYPKZZ	.669x1.30 (17x33)	YP	.032 (8)
6.80	AREM68525KYUKZZ	.669x1.81 (17x46)	YU	.032 (8)
10.00	AREM10625K2UKZZ	.807x1.81 (20.5x46)	2U	.040 (1.02)
12.00	AREM12625K5UKZZ	.885x1.81 (22.5x46)	3U	.040 (1.02)
15.00	AREM15625K4UKZZ	.965x1.81 (24.5x46)	4U	.040 (1.02)
20.00	AREM20625K5UKZZ	1.08x1.81 (27.4x46)	5U	.040 (1.02)
<b>400 Vdc (200 Vac)</b>				
.010	AREM10340KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.015	AREM15340KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.022	AREM22340KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.033	AREM33340KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.047	AREM47340KEEKZZ	.276x.650 (7x16.5)	EE	.025 (7)
.068	AREM68340KEIKZZ	.276x.807 (7x20.5)	EI	.025 (7)
.10	AREM10440KFIKZZ	.295x.807 (7.5x20.5)	FI	.032 (8)
.15	AREM15440KIIKZZ	.394x.807 (9x20.5)	II	.032 (8)
.22	AREM22440KHOKZZ	.335x1.10 (8.5x28)	HO	.032 (8)
.33	AREM33440KSOKZZ	.394x1.10 (14x28)	SO	.032 (8)
.47	AREM47440KNOKZZ	.453x1.10 (11.5x28)	NO	.032 (8)
.68	AREM68440KNPKZZ	.453x1.30 (11.5x33)	NP	.032 (8)
1.0	AREM10540KRPKZZ	.531x1.30 (13x33)	RP	.032 (8)
1.5	AREM15540KUUKZZ	.591x1.81 (15x46)	UU	.032 (8)
2.2	AREM22540KYUKZZ	.669x1.81 (17x46)	YU	.032 (8)
<b>630 Vdc (220 Vac)</b>				
.0010	AREM10263KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.0015	AREM15263KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.0022	AREM22263KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.0033	AREM33263KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.0047	AREM47263KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.0068	AREM68263KABKZZ	.197x.433 (5x11)	AB	.025 (7)
.010	AREM10363KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.015	AREM15363KCEKZZ	.236x.650 (6x16.5)	CE	.025 (7)
.022	AREM22363KEEKZZ	.276x.650 (7x16.5)	EE	.025 (7)
.033	AREM33363KFIKZZ	.295x.807 (7.5x20.5)	FI	.032 (8)
.047	AREM47363KFIKZZ	.295x.807 (7.5x20.5)	FI	.032 (8)
.068	AREM68363KIIKZZ	.354x.807 (9x20.5)	II	.032 (8)
.10	AREM10463KHOKZZ	.335x1.10 (8.5x28)	HO	.032 (8)
.15	AREM15463KKOKZZ	.394x1.10 (10x28)	KO	.032 (8)
.22	AREM22463KNOKZZ	.453x1.10 (11.5x28)	NO	.032 (8)
.33	AREM33463KSOKZZ	.551x1.10 (14x28)	SO	.032 (8)
.47	AREM47463KUPKZZ	.591x1.10 (15x33)	UP	.032 (8)
.68	AREM68463KUUKZZ	.591x1.81 (15x46)	UU	.032 (8)
1.00	AREM10563KRPKZZ	.709x1.81 (18x46)	1U	.032 (8)

# Aerovox Corp.®

## Type AFEO Flat Axial Metallized Polyester

### Ratings

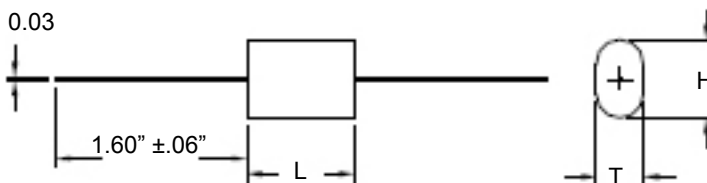
### RoHS Compliant

Cap ( $\mu$ F)	Catalog Part Number	Dimensions T x H x L Inches (mm)	Case Code	AWG d Inches (mm)
<b>100 Vdc (63 Vac)</b>				
2.20	AFEO22510KNLKZZ	.32x.60x.94 (8.1x15.2x23.0)	NL	.032 (.80)
3.00	AFEO30519KTOKZZ	.33x.65x1.05 (8.4x16.5x26.7)	TO	.032 (.80)
3.30	AFEO33510KKOKZZ	.39x.67x1.05 (9.9x17.0x26.7)	KO	.032 (.80)
4.00	AFEO40510KLRKZZ	.35x.65x1.25 (8.9x16.5x31.8)	LR	.032 (.80)
4.70	AFEO47510KRRKZZ	.42x.75x1.25 (10.7x19.1x31.8)	KR	.032 (.80)
5.00	AFEO50510KRRKZZ	.42x.75x1.25 (10.7x19.1x31.8)	KR	.032 (.80)
6.00	AFEO60510KMRKZZ	.45x.75x1.25 (11.4x19.1x31.8)	MR	.032 (.80)
6.80	AFEO68510KPRKZZ	.55x.85x1.25 (14.0x21.6x31.8)	PR	.032 (.80)
<b>250 Vdc (160 Vac)</b>				
.100	AFEO10425KCEKZZ	.25x.48x.56 (6.4x12.2x14.2)	CE	.025 (.60)
.150	AFEO15425KCEKZZ	.25x.48x.56 (6.4x12.2x14.2)	CE	.025 (.60)
.220	AFEO22425KBLKZZ	.20x.52x.94 (5.1x13.2x23.9)	BL	.025 (.60)
.330	AFEO33425KJLKZZ	.22x.52x.94 (5.6x13.2x23.9)	JL	.025 (.60)
.470	AFEO47425KCLKZZ	.25x.55x.94 (6.4x14.0x23.9)	CL	.025 (.60)
.680	AFEO68425KHLKZZ	.27x.55x.94 (6.9x14.0x23.9)	HL	.025 (.60)
1.00	AFEO10525KILKZZ	.30x.55x.94 (7.6x14.0x23.9)	IL	.032 (.80)
1.50	AFEO15525KJKKZZ	.37x.85x.94 (9.4x16.0x23.9)	JK	.032 (.80)
2.00	AFEO20525KKOKZZ	.39x.67x1.05 (9.9x17.0x26.7)	KO	.032 (.80)
2.20	AFEO22525KLOKZZ	.41x.67x1.05 (10.4x17.0x26.7)	LO	.032 (.80)
3.00	AFEO30525KKPKZZ	.39x.78x1.25 (9.9x19.8x31.8)	KP	.032 (.80)
3.30	AFEO33525KLPKZZ	.41x.80x1.25 (10.4x20.3x31.8)	LP	.032 (.80)
4.00	AFEO40525KNPKZZ	.45x.94x1.25 (11.4x23.9x31.8)	NP	.032 (.80)
4.70	AFEO47525KPPKZZ	.49x.98x1.25 (12.4x24.9x31.8)	PP	.032 (.80)
5.00	AFEO50525KPPKZZ	.49x.98x1.25 (12.4x24.9x31.8)	PP	.032 (.80)
6.00	AFEO60625KLUKZZ	.39x.90x1.76 (9.9x22.9x44.7)	KU	.032 (.80)
6.80	AFEO68525KPUKZZ	.49x.90x1.76 (12.4x22.9x44.7)	PU	.032 (.80)
7.00	AFEO70525KNUKZZ	.45x.95x1.76 (11.4x24.1x44.7)	NU	.032 (.80)
8.00	AFEO80525KRUKZZ	.49x.98x1.76 (12.4x24.9x44.7)	RU	.032 (.80)
9.00	AFEO90525KSUKZZ	.53x1.02x1.76 (13.5x25.9x44.7)	SU	.032 (.80)
10.0	AFEO10625KXUKZZ	.55x1.05x1.76 (14.0x26.7x44.7)	XU	.032 (.80)
12.0	AFEO12625KRXKZZ	.51x1.02x2.26 (13.0x25.9x57.4)	RX	.032 (.80)
15.0	AFEO15625KUXKZZ	.60x1.08x2.26 (15.2x27.4x57.4)	UX	.032 (.80)
18.0	AFEO18625KYXKZZ	.67x1.20x2.26 (17.0x30.5x57.4)	YX	.032 (.80)
20.0	AFEO20625K2XKZZ	.73x1.25x2.26 (18.5x31.8x57.4)	2X	.032 (.80)

Cap ( $\mu$ F)	Catalog Part Number	Dimensions T x H x L Inches (mm)	Case Code	AWG d Inches (mm)
<b>400 Vdc (200 Vac)</b>				
.047	AFEO47340KADKZZ	.20x.35x.56 (5.1x8.9x14.2)	AD	.025 (.60)
.068	AFEO68340KHEKZZ	.27x.47x.56 (6.9x11.9x14.2)	HE	.025 (.60)
.100	AFEO10440KHEKZZ	.25x.60x.94 (6.4x15.2x23.9)	DL	.025 (.60)
.150	AFEO15440KDLKZZ	.25x.60x.94 (6.4x15.2x23.9)	DL	.025 (.60)
.220	AFEO22440KFLKZZ	.32x.60x.94 (8.1x15.2x23.9)	FL	.032 (.80)
.330	AFEO33440KFLKZZ	.32x.60x.94 (8.1x15.2x23.9)	FL	.032 (.80)
.470	AFEO4740KGLKZZ	.35x.65x.94 (8.9x16.5x23.9)	GL	.032 (.80)
.680	AFEO68440KLRKZZ	.35x.65x1.25 (8.9x16.5x31.8)	LR	.032 (.80)
1.00	AFEO10540KMRKZZ	.45x.75x1.25 (11.4x19.1x31.8)	MR	.032 (.80)
1.50	AFEO15540KPRKZZ	.55x.85x1.25 (14.0x21.6x31.8)	PR	.032 (.80)
2.00	AFEO20540KPRKZZ	.55x.85x1.25 (14.0x21.6x31.8)	PR	.032 (.80)
2.20	AFEO22540KTUKZZ	.60x.90x1.76 (15.2x22.9x44.7)	TU	.032 (.80)
3.00	AFEO30540KXUKZZ	.80x1.15x1.76 (16.2x27.4x57.4)	XU	.032 (.80)

### Outline Drawings

#### AFEO



#### AREM

