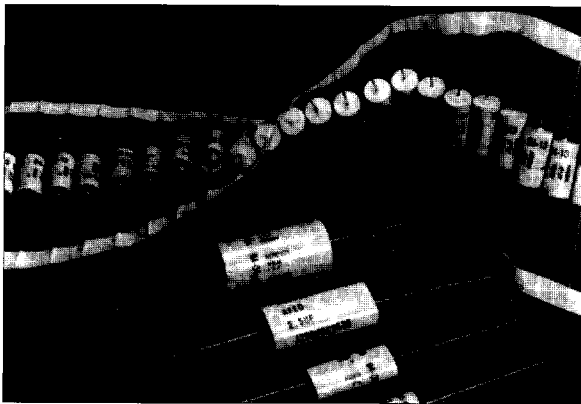


Type AREM, AFEO

Axial Leaded Capacitors Metallized Polyester Dielectric Tape Wrapped with Epoxy Endfill



Insulation Resistance		
Category	≤100VDC	>100VDC
MegOhms x μF	1,000	5,000
MegOhms Maximum (Need Not Exceed)	10,000	30,000
Test Voltage	50VDC	100VDC
Electrification Time	1 Minute	1 Minute

Physical

- | | |
|----------------------|---|
| Dielectric Material | • Polyester (metallized) |
| Electrode Material | • Vapor deposited aluminium |
| Winding Construction | • Non-inductive, extended metallized film |
| Lead Material | • Tinned wire |
| Enclosure | • Tape wrap with epoxy endfill. |
| Component Marking | • Logo, type, capacitance value, tolerance, rated voltage and date code |
| Temperature Range | • -55°C to 125°C
-55°C to 85°C at Rated Voltage
From 85°C to 125°C derate DC voltage rating 1.25%/°C, AC voltage 1.5%/°C. |
| Temperature Coef. | • ±5% from -40°C to 85°C |
| Flame Retardancy | • Units meet standard industry requirements when tested as specified per IEC 695-2-2 and UL 94 VO. |
| Packaging | • Bulk or tape & reel |

Electrical

- | | |
|-----------------------|--|
| Capacitance Range | • .010μF to 20.0μF @ 1KHz (AREM)
• .047μF to 20.0μF @ 1KHz (AFEO) |
| Tolerance | • ± 5%, ± 10% (J,K) |
| Voltage Range | • 63VDC to 630VDC (AREM)
• 100VDC to 400VDC (AFEO) |
| Dissipation Factor | • ≤ 0.8% @ 1KHz |
| Dielectric Strength | • 1.6 x rated VDC |
| Dielectric Absorption | • .30% typical |
| Insulation Resistance | • See table |

Long Term Stability

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

Performance Testing

Accelerated Dry Life:

Test Conditions

- | | |
|-----------------|---------------------------|
| Temperature | • 85°C ± 5.0°C |
| Applied Voltage | • 1.25 x rated DC voltage |
| Test Duration | • 1000 hours |

Performance Requirements

- | | |
|-----------------------|--------------------------|
| Capacitance | • delta of ≤ 5.0% |
| Dissipation Factor | • ≤ 1.0% @ 1KHz |
| Insulation Resistance | • ≥ 30% of initial limit |

Humidity:

Test Conditions

- | | |
|-----------------|----------------|
| Temperature | • 40°C ± 2.0°C |
| Applied Voltage | • Zero Voltage |
| Humidity | • 93% ± 2% RH |
| Test Duration | • 500 hours |

Performance Requirements

- | | |
|-----------------------|--------------------------|
| Capacitance | • delta of ≤ 5.0% |
| Dissipation Factor | • ≤ 1.0% @ 1KHz |
| Insulation Resistance | • ≥ 50% of initial limit |

Resistance To Solder Heat:

Test Conditions

- | | |
|--------------------|-------------------------|
| Solder Temperature | • 260°C ± 5.0°C |
| Test Duration | • 10 seconds ± 1 second |

Performance Requirements

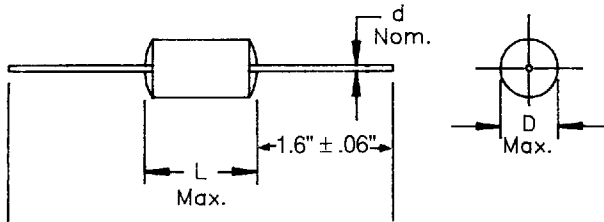
- | | |
|-------------|-------------------|
| Capacitance | • delta of ≤ 2.0% |
|-------------|-------------------|

Lead Pull:

Must withstand a tensile force of 5 lbs applied to each lead for 5 seconds.

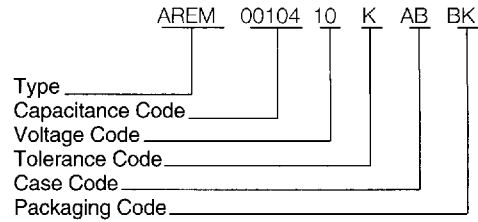
Type AREM

Axial Leaded Capacitors Metallized Polyester Dielectric Tape Wrapped with Epoxy Endfill



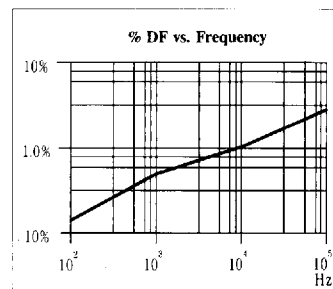
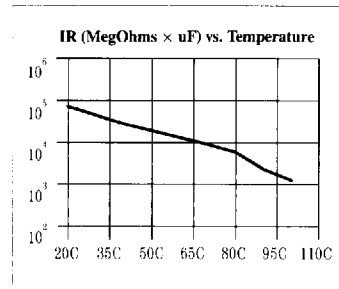
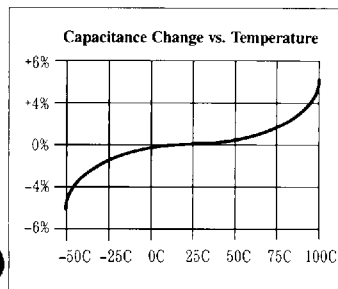
Part Numbering System

Example: 0.10µF 100VDC ±10% Bulk Packed



Capacitance		Code 06 63VDC (40VAC)		Code 10 100VDC (63VAC)		Code 25 250VDC (160VAC)		Code 40 400VDC (200VAC)		Code 63 630VDC (220VAC)	
µF	Code	Dimensions IN. D & L		Dimensions IN. D & L		Dimensions IN. D & L		Dimensions IN. D & L		Dimensions IN. D & L	
			Case Code		Case Code		Case Code		Case Code		Case Code
0.0010	00102									.197 x .433	AB
0.0015	00152									.197 x .433	AB
0.0022	00222									.197 x .433	AB
0.0033	00332									.197 x .433	AB
0.0047	00472									.197 x .433	AB
0.0068	00682									.197 x .433	AB
0.0100	00103							.197 x .433	AB	.236 x .650	CE
0.0150	00153					.197 x .433	AB	.236 x .650	CE	.236 x .650	CE
0.0220	00223					.197 x .433	AB	.236 x .650	CE	.276 x .650	EE
0.0330	00333					.197 x .433	AB	.236 x .650	CE	.295 x .807	FI
0.0470	00473					.197 x .433	AB	.276 x .650	EE	.295 x .807	FI
0.0680	00683			.197 x .433	AB	.236 x .650	CE	.276 x .807	EI	.354 x .807	II
0.10	00104			.197 x .433	AB	.256 x .650	DE	.295 x .807	FI	.335 x 1.102	HO
0.15	00154	.197 x .433	AB	.236 x .650	CE	.296 x .650	FE	.354 x .807	II	.394 x 1.102	KO
0.22	00224	.236 x .650	CE	.256 x .650	DE	.335 x .650	HE	.335 x 1.102	HO	.453 x 1.102	NO
0.33	00334	.236 x .650	CE	.295 x .650	FE	.312 x .750	GF	.394 x 1.102	KO	.551 x 1.102	SO
0.47	00474	.276 x .650	EE	.315 x .650	GE	.354 x .750	IF	.453 x 1.102	NO	.591 x 1.300	UP
0.68	00684	.276 x .807	EI	.335 x .807	HI	.354 x 1.102	IO	.453 x 1.300	NP	.591 x 1.810	UU
1.00	00105	.315 x .807	GI	.394 x .807	KI	.413 x 1.102	LO	.531 x 1.300	RP	.709 x 1.810	1U
1.50	00155	.374 x .807	JL	.394 x 1.102	KO	.472 x 1.102	OO	.591 x 1.810	UU		
2.20	00225	.374 x 1.102	JO	.453 x 1.102	NO	.512 x 1.102	PO	.669 x 1.810	YU		
3.30	00335	.394 x 1.102	KO	.512 x 1.102	PO	.630 x 1.300	WP				
4.70	00475	.512 x 1.102	PO	.512 x 1.300	RP	.669 x 1.300	YP				
6.80	00685	.472 x 1.300	OP	.630 x 1.300	WP	.669 x 1.810	YU				
10.00	00106	.571 x 1.300	TP	.729 x 1.300	2P	.807 x 1.810	2U				
12.00	00126	CONTACT FACTORY					.886 x 1.810	3U			
15.00	00156	CONTACT FACTORY					.965 x 1.810	4U			
20.00	00206	CONTACT FACTORY					1.080 x 1.810	5U			

Case Code	Dimensions mm D & L
AB	5 x 11
CE	6 x 16.5
DE	6.5 x 16.5
EE	7 x 16.5
EI	7 x 20.5
FE	7.5 x 16.5
FI	7.5 x 20.5
GE	8 x 16.5
GF	8 x 19
GI	8 x 20.5
HE	8.5 x 16.5
HI	8.5 x 20.5
HO	8.5 x 28
IF	9 x 19
II	9 x 20.5
IO	9 x 28
JI	9.5 x 20.5
JO	9.5 x 28
KI	10 x 20.5
KO	10 x 28
LO	10.5 x 28
NO	11.5 x 28
NP	11.5 x 33
OO	12 x 28
OP	12 x 33
PO	13 x 28
RP	13 x 33
SO	14 x 28
TP	14.5 x 33
UP	15 x 33
UU	15 x 46
WP	16 x 33
WU	16 x 46
YP	17 x 33
YU	17 x 46
1U	18 x 46
2P	18.5 x 33
2U	20.5 x 46
3U	22.5 x 46
4U	24.5 x 46
5U	27.4 x 46



D	d	AWG
≤.276 IN. (7mm)	.025 IN. (.6mm)	#22
>.276 IN. (7mm)	.032 IN. (.8mm)	#20
>.709 IN. (18mm)	.040 IN. (1.016mm)	#18