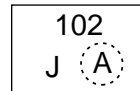


AMC SERIES — LOW PROFILE — POLYESTER FILM

Electrical Specifications

Temp. Range	-40 to +85°C
Rated Voltage	50V DC
Capacitance	470pF to 0.10μF (E-24)
Cap. Tolerance	±5% (J), ±10% (K)
tgδ	0.008 max. (at 1KHz)
Insulation Resistance	30,000 MΩ min.
Life Test	
85°C 70V DC 1000 hours	
Δc/c -5 +3%	
tgδ <.012	
IR >950 mΩ	
Damp Heat	
40°C 90-95% RH 50V DC 500 hours	
Δc/c -0 +5%	
tgδ <.012	
IR >9000mΩ	

Markings

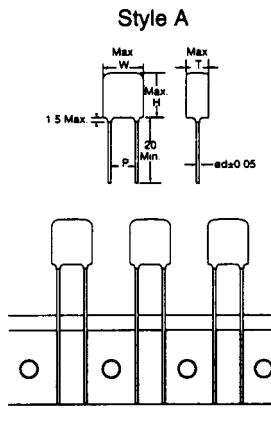


Capacitance
Tol - Date - Code

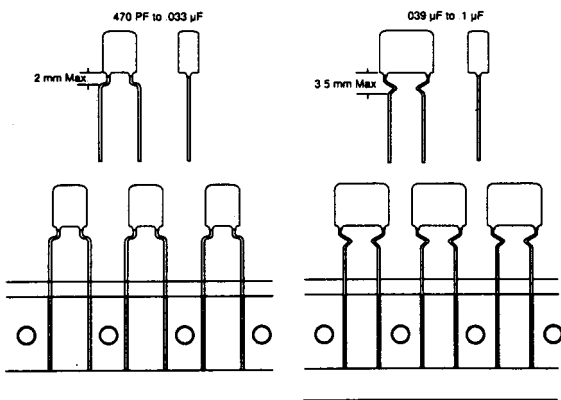
Mechanical Characteristics

Construction	Wound Polyester Film, Aluminum Foil, Inserted Tab, Welded Leads, Epoxy Dipped
Color	Yellow
Packaging	Taped or Bulk. See page 11 for taping specifications
Part Number	Example AMC .01μF 10% 50V
Sequence	1. Style A, 5mm spacing, long leads, AMC103K50B 2. Style B, 5mm spacing, long leads, AMC103K50BC 3. Style A, 5mm spacing, taped + Ammopack AMC103K50AC

Drawings



Style B



Dimensions (mm)

Series AMC (E-12)	WV DIM Cap (μF)	AMC 50 V. DC						AMC 50 V. DC (P=5)				
		W	H	T	P Style A	F Style B	Ød	W	H	T	P Style A	Ød
471	0.00047	5.2	5.0	3.0	3.5	5.0	0.45	7.0	5.0	3.0	5.0	0.45
561	0.00056	5.0	5.0	2.7	3.5	5.0	0.45	7.0	5.0	3.0	5.0	0.45
681	0.00068	5.0	5.0	2.5	3.5	5.0	0.45	7.0	5.0	3.0	5.0	0.45
821	0.00082	5.0	5.0	2.5	3.5	5.0	0.45	7.0	5.0	3.0	5.0	0.45
102	0.0010	5.0	5.0	2.5	3.5	5.0	0.45	7.0	5.0	3.0	5.0	0.45
122	0.0012	5.0	5.0	2.5	3.5	5.0	0.45	7.0	5.0	2.8	5.0	0.45
152	0.0015	5.0	5.0	2.5	3.5	5.0	0.45	7.0	5.0	2.8	5.0	0.45
182	0.0018	5.0	5.0	2.5	3.5	5.0	0.45	7.0	5.0	2.8	5.0	0.45
222	0.0022	5.2	5.0	2.5	3.5	5.0	0.45	7.3	5.0	2.8	5.0	0.45
272	0.0027	5.2	5.0	2.5	3.5	5.0	0.45	7.3	5.0	2.8	5.0	0.45
332	0.0033	5.0	5.0	2.5	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
392	0.0039	5.0	5.0	2.7	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
472	0.0047	5.0	5.0	2.7	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
562	0.0056	5.0	5.0	2.7	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
682	0.0068	5.2	5.0	2.7	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
822	0.0082	5.2	5.0	2.7	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
103	0.010	5.2	5.0	2.7	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
123	0.012	5.5	5.0	3.0	3.5	5.0	0.45	7.3	5.0	3.0	5.0	0.45
153	0.015	5.8	5.0	3.2	3.5	5.0	0.45	7.5	5.0	3.3	5.0	0.45
183	0.018	6.0	5.5	3.5	3.5	5.0	0.45	7.5	5.3	3.3	5.0	0.45
223	0.022	6.2	5.5	3.8	3.5	5.0	0.45	7.5	5.3	3.3	5.0	0.45
273	0.027	6.2	6.0	3.8	3.5	5.0	0.45	7.5	5.3	3.3	5.0	0.45
333	0.033	6.7	6.0	4.0	3.5	5.0	0.45	7.5	5.3	3.8	5.0	0.45
393								7.5	6.0	4.0	5.0	0.45
473								8.0	6.0	4.3	5.0	0.45
563								7.2	7.0	4.2	5.0	0.45
683								7.5	7.0	4.3	5.0	0.45
823								8.2	7.0	4.8	5.0	0.45
104								8.5	7.0	5.0	5.0	0.45

AMZ SERIES — POLYESTER FILM

Electrical Specifications

Temp. Range	-40 to +85°C
Rated Voltage	50V, 100V, 160V, 250V, 400V DC
Capacitance	100pF to .47 μ F
Cap. Tolerance	\pm 5% (J), \pm 10% (K)
tg δ	0.008 max. (at 1KHz)
Insulation Resistance	30,000 M Ω min.

Life Test

85°C WV x 140% 1000 hours

Δ c/c \leq \pm 3%

tg δ \leq .011

IR >4500 m Ω

Damp Heat

40°C 90-95% RH WV 1000 hours

Δ c/c \leq -2 +5%

tg δ \leq .012

IR >9000m Ω

Markings

50V

471 to 133 471 J $\text{\textcircled{A}}$ cap – tol – date code

>133 223 K
50 $\text{\textcircled{A}}$ $\text{\textcircled{N}}$ cap – tol
voltage – date code — logo

100/160V

102 to 822 102 J
 $\text{\textcircled{N}}$
100 $\text{\textcircled{A}}$ cap – tol
logo
voltage – date code

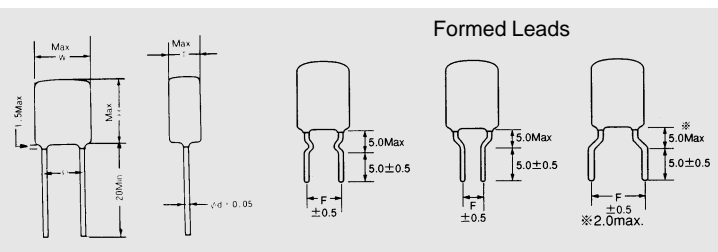
>822 102 K 100
NIS $\text{\textcircled{A}}$ cap – tol – voltage
logo – date code

250/400V

102 to 822 102 J
 $\text{\textcircled{N}}$
250 $\text{\textcircled{A}}$ cap – tol
logo
voltage – date code

>822 102 K 250
NIS $\text{\textcircled{A}}$ cap – tol – voltage
logo – date code

Drawings



Mechanical Characteristics

Construction	Wound Polyester Film, Aluminum Foil, Inserted Tab, Welded Leads, Epoxy Dipped
Color	Yellow
Packaging	Taped or Bulk. See page 11 for taping specifications.
Part Number Sequence	See page 14.

Series AMZ (E-12)	RV		AMZ 50V. DC / 40V. AC					
	Cap (μ F)	DIM	W	H	T	P	F	$\text{\textcircled{d}}$
101	0.00010		5.7	7.5	3.7	3.5 \pm 0.5	5.0	0.5
121	0.00012		5.7	7.5	3.7	3.5 \pm 0.5	5.0	0.5
151	0.00015		5.7	7.5	3.7	3.5 \pm 0.5	5.0	0.5
181	0.00018		5.7	7.5	3.5	3.5 \pm 0.5	5.0	0.5
221	0.00022		5.5	7.3	3.2	3.5 \pm 0.5	5.0	0.5
271	0.00027		5.2	7.0	2.8	3.5 \pm 0.5	5.0	0.5
331	0.00033		5.2	7.0	2.8	3.5 \pm 0.5	5.0	0.5
391	0.00039		5.2	7.0	2.8	3.5 \pm 0.5	5.0	0.5
471	0.00047		5.2	7.0	2.8	3.5 \pm 0.5	5.0	0.5
561	0.00056		4.8	7.0	2.8	3.5 \pm 0.5	5.0	0.5
681	0.00068		5.0	7.0	2.8	3.5 \pm 0.5	5.0	0.5
821	0.00082		4.8	7.0	2.5	3.5 \pm 0.5	5.0	0.5
102	0.0010		4.8	7.0	2.5	3.5 \pm 0.5	5.0	0.5
122	0.0012		4.8	7.0	2.5	3.5 \pm 0.5	5.0	0.5
152	0.0015		4.8	7.0	2.5	3.5 \pm 0.5	5.0	0.5
182	0.0018		4.8	7.0	2.5	3.5 \pm 0.5	5.0	0.5
222	0.0022		4.8	7.0	2.2	3.5 \pm 0.5	5.0	0.5
272	0.0027		4.8	7.0	2.8	3.5 \pm 0.5	5.0	0.5
332	0.0033		4.8	7.0	2.8	3.5 \pm 0.5	5.0	0.5
392	0.0039		5.0	7.0	2.8	3.5 \pm 0.5	5.0	0.5
472	0.0047		5.0	7.0	2.8	3.5 \pm 0.5	5.0	0.5
562	0.0056		4.8	7.0	2.8	3.5 \pm 0.5	5.0	0.5
682	0.0068		4.8	7.0	2.8	3.5 \pm 0.5	5.0	0.5
822	0.0082		5.0	7.0	2.8	3.5 \pm 0.5	5.0	0.5
103	0.010		5.5	7.0	3.0	3.5 \pm 0.5	5.0	0.5
123	0.012		5.8	7.0	3.3	3.5 \pm 0.5	5.0	0.5
153	0.015		5.3	8.5	3.0	3.5 \pm 0.5	5.0	0.5
183	0.018		5.3	8.5	3.0	3.5 \pm 0.5	5.0	0.5
223	0.022		5.5	9.0	3.5	3.5 \pm 0.5	5.0	0.5
273	0.027		5.5	9.0	3.0	3.5 \pm 0.5	5.0	0.5
333	0.033		5.8	9.0	3.5	3.5 \pm 0.5	5.0	0.5
393	0.039		6.5	9.0	3.5	5.0 $^{+3}_{-2}$	5.0	0.5
473	0.047		7.0	9.0	3.5	5.0 $^{+3}_{-2}$	5.0	0.5
563	0.056		7.0	9.5	4.0	5.0 $^{+3}_{-2}$	5.0	0.5
683	0.068		7.5	9.5	4.5	5.0 $^{+3}_{-2}$	5.0	0.5
823	0.082		8.0	9.5	4.5	5.0 $^{+3}_{-2}$	5.0	0.5
104	0.10		8.3	9.5	5.0	5.0 $^{+3}_{-2}$	5.0	0.5
124	0.12		7.8	11.0	5.0	5.0 $^{+3}_{-2}$	5.0	0.5
154	0.15		8.5	11.5	5.5	5.0 $^{+3}_{-2}$	5.0	0.5

AMZ SERIES — POLYESTER FILM

Dimensions (mm)

Series AMZ (E-12)	RV		AMZ 100V. DC / 75V. AC					Ød
	Cap (µF)	DIM	W	H	T	P	F	
101	0.00010		5.7	7.5	3.7	3.5 ⁺³ ₋₂	5.0	0.5
121	0.00012		5.7	7.5	3.7	3.5 ⁺³ ₋₂	5.0	0.5
151	0.00015		5.7	7.5	3.7	3.5 ⁺³ ₋₂	5.0	0.5
181	0.00018		5.7	7.5	3.5	3.5 ⁺³ ₋₂	5.0	0.5
221	0.00022		5.7	7.5	3.2	3.5 ⁺³ ₋₂	5.0	0.5
271	0.00027		5.7	7.5	2.8	3.5 ⁺³ ₋₂	5.0	0.5
331	0.00033		5.7	7.5	2.8	3.5 ⁺³ ₋₂	5.0	0.5
391	0.00039		5.7	7.5	2.8	3.5 ⁺³ ₋₂	5.0	0.5
471	0.00047		5.2	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
561	0.00056		4.8	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
681	0.00068		5.0	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
821	0.00082		4.8	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
102	0.0010		4.8	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
122	0.0012		4.8	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
152	0.0015		4.8	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
182	0.0018		4.8	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
222	0.0022		4.8	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
272	0.0027		4.8	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
332	0.0033		4.8	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
392	0.0039		5.0	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
472	0.0047		5.0	7.0	2.5	3.5 ⁺³ ₋₂	5.0	0.5
562	0.0056		4.8	7.0	2.8	3.5 ⁺³ ₋₂	5.0	0.5
682	0.0068		5.8	8.5	4.0	3.5±0.5	5.0	0.5
822	0.0082		6.0	8.5	4.0	3.5±0.5	5.0	0.5
103	0.010		6.0	8.5	4.0	3.5±0.5	5.0	0.5
123	0.012		6.0	9.5	4.0	3.5±0.5	5.0	0.5
153	0.015		6.0	9.5	4.0	3.5±0.5	5.0	0.5
183	0.018		6.5	9.5	4.5	3.5±0.5	5.0	0.5
223	0.022		6.5	9.5	4.5	3.5±0.5	5.0	0.5
273	0.027		7.3	11.5	3.0	5.0±0.5	5.0	0.5
333	0.033		7.5	11.5	3.3	5.0±0.5	5.0	0.5
393	0.039		8.0	12.0	4.0	5.0±0.5	5.0	0.5
473	0.047		8.0	12.0	4.0	5.0±0.5	5.0	0.5
563	0.056		7.5	12.5	5.0	5.0±0.5	5.0	0.5
683	0.068		7.5	12.5	5.0	5.0±0.5	5.0	0.5
823	0.082		8.5	12.5	5.8	5.0±0.5	5.0	0.5
104	0.10		8.5	12.5	5.8	5.0±0.5	5.0	0.5
124	0.12		11.0	12.5	6.0	7.5±0.5	5.0/7.5	0.5
154	0.15		12.5	14.0	6.0	10.0±0.5	5.0/7.5	0.5
184	0.18		13.0	14.0	6.5	10.0±0.5	5.0/7.5	0.5
224	0.22		13.5	14.0	6.5	10.0±0.5	5.0/7.5	0.5
274	0.27		13.5	17.0	7.0	10.0±0.5	5.0/7.5	0.6
334	0.33		14.5	17.0	8.0	10.0±0.5	5.0/7.5	0.6
394	0.39		15.0	17.0	8.5	10.0±0.5	5.0/7.5	0.6
474	0.47		16.0	17.0	9.5	10.0±0.5	5.0/7.5	0.6

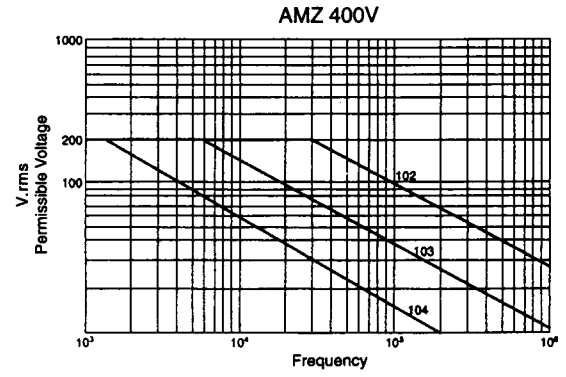
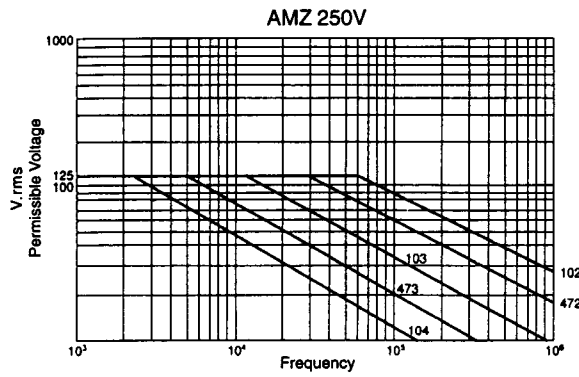
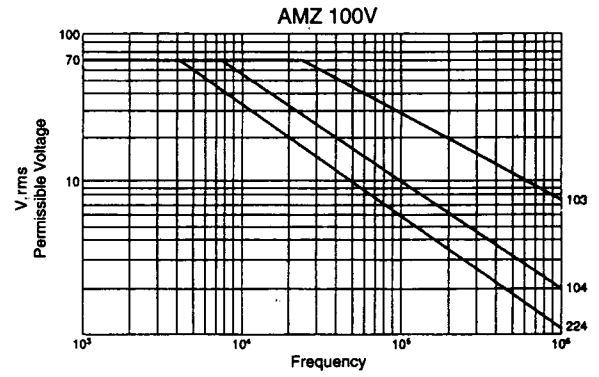
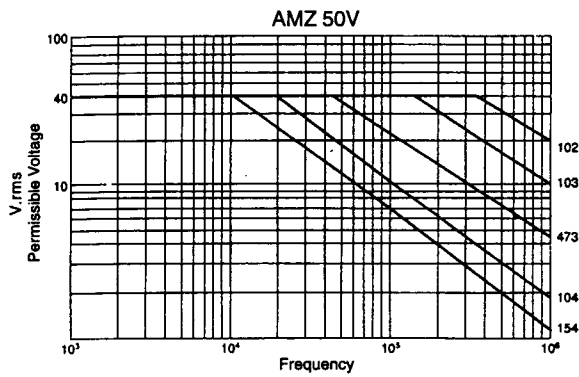
AMZ SERIES — POLYESTER FILM

Dimensions (mm)

Series AMZ (E-12)	RV Cap (µF) / DIM	AMZ 250V. DC / 125V. AC						AMZ 400V. DC / 200V. AC					
		W	H	T	P	F	Ød	W	H	T	P	F	Ød
102	0.0010	5.3	10.0	2.8	3.5±0.5	5.0	0.5	6.5	11.0	3.5	4.0±0.5	5.0	0.5
122	0.0012	5.3	11.0	2.8	3.5±0.5	5.0	0.5	6.5	11.0	3.5	4.0±0.5	5.0	0.5
152	0.0015	5.3	11.0	2.8	3.5±0.5	5.0	0.5	6.5	11.0	3.5	4.0±0.5	5.0	0.5
182	0.0018	5.3	11.0	2.8	3.5±0.5	5.0	0.5	7.0	11.0	4.0	4.0±0.5	5.0	0.5
222	0.0022	5.3	11.0	2.5	3.5±0.5	5.0	0.5	7.0	11.5	4.0	4.0±0.5	5.0	0.5
272	0.0027	5.3	11.0	2.5	3.5±0.5	5.0	0.5	7.5	11.5	4.0	5.0±0.5	5.0	0.5
332	0.0033	5.3	11.0	2.5	3.5±0.5	5.0	0.5	7.5	11.5	4.0	5.0±0.5	5.0	0.5
392	0.0039	5.8	11.0	2.8	3.5±0.5	5.0	0.5	8.5	13.0	4.5	6.0±0.5	5.0	0.5
472	0.0047	5.8	11.0	2.8	3.5±0.5	5.0	0.5	8.5	13.0	4.5	6.0±0.5	5.0	0.5
562	0.0056	6.8	11.0	3.0	5.0±0.5	5.0	0.5	8.5	13.0	4.5	6.0±0.5	5.0	0.5
682	0.0068	7.0	11.0	3.3	5.0±0.5	5.0	0.5	9.0	13.0	4.5	6.0±0.5	5.0	0.5
822	0.0082	7.3	12.0	3.3	5.0±0.5	5.0	0.5	9.5	13.5	5.5	6.0±0.5	5.0	0.5
103	0.010	7.3	12.0	3.3	5.0±0.5	5.0	0.5	9.5	13.5	5.5	6.5±0.5	5.0	0.5
123	0.012	7.3	12.0	3.5	5.5±0.5	5.0	0.5	10.0	14.0	6.0	7.0±0.5	5.0	0.5
153	0.015	7.5	12.0	3.5	5.5±0.5	5.0	0.5	11.0	14.0	6.5	7.5±0.5	5.0/7.5	0.5
183	0.018	7.8	12.0	3.8	6.0±0.5	5.0	0.5	11.5	16.0	6.5	7.0±0.5	5.0/7.5	0.6
223	0.022	8.3	12.0	4.0	6.0±0.5	5.0	0.5	11.5	16.5	6.5	7.0±0.5	5.0/7.5	0.6
273	0.027	9.0	12.0	4.5	6.0±0.5	5.0	0.5	12.5	18.5	7.0	8.0±0.5	5.0/7.5	0.6
333	0.033	9.0	12.5	4.5	6.5±0.5	5.0	0.5	12.5	19.0	7.0	8.5±0.5	5.0/7.5	0.6
393	0.039	9.8	12.5	5.3	6.5±0.5	5.0/7.5	0.5	14.0	19.5	7.5	9.0±0.5	5.0/7.5	0.6
473	0.047	11.5	15.5	6.5	7.5±0.5	5.0/7.5	0.6	14.0	20.0	8.0	9.5±0.5	5.0/7.5	0.6
563	0.056	12.0	17.0	7.0	7.5±0.5	5.0/7.5	0.6	15.0	20.5	9.0	10.0±0.5	5.0/7.5	0.6
683	0.068	13.0	19.0	7.0	8.5±0.5	5.0/7.5	0.6	16.0	21.0	9.5	11.0±0.5	5.0/7.5	0.6
823	0.082	14.0	19.0	7.5	9.5±0.5	5.0/7.5	0.6	17.0	21.0	11.0	11.5±0.5	5.0/7.5	0.6
104	0.10	14.3	19.0	7.5	10.0±0.5	5.0/7.5	0.6	18.0	22.5	10.0	12.5±0.5	10.0	0.6
124	0.12	16.0	20.0	9.5	10.5±0.5	5.0/7.5	0.6	19.0	22.5	11.0	12.5±0.5	10.0	0.6
154	0.15	16.0	20.0	9.5	11.0±0.5	5.0/7.5	0.6						
184	0.18	18.0	22.0	10.5	12.0±0.5	7.5/10.0	0.6						
224	0.22	18.5	22.5	10.5	12.5±0.5	10.0	0.6						

AMZ SERIES — POLYESTER FILM

Voltage derating vs. frequency



Permissible current vs. frequency

