

# VISHAY BC COMPONENTS Aluminum Capacitors Miniature Axial

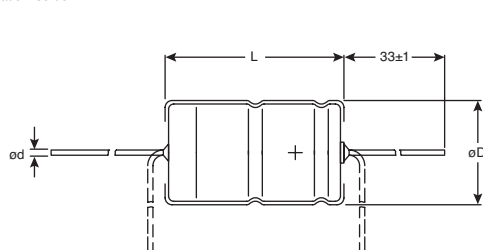
RoHS Compliant This product is RoHS compliant.

## VISHAY 021 ASM SERIES

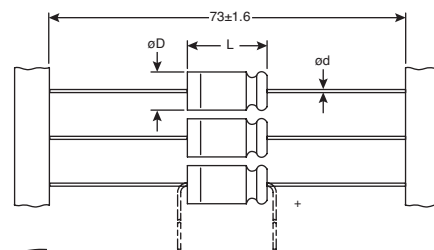
### Features:

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Taped versions up to case  $\phi 15 \times 30 \text{mm}$  available for automatic insertion
- Charge and discharge proof

### DIMENSIONS: mm



**Form AA:** Axial in box (bulk)  
Case  $\phi D \times L = 10 \times 30$  to  $21 \times 38 \text{mm}$



**Form BA:** Taped in box (ammopak),  
case  $\phi D \times L = 6.5 \times 18$  to  $10 \times 25 \text{mm}$

### Reference Data:

- Tolerance on  $C_p$ :  $\pm 20\%$
- Rated voltage range,  $U_p$ : 6.3V to 100V
- Category temperature range:  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$
- Shelf life at 0V,  $85^\circ\text{C}$ : 500 Hours

### Applications:

- General purpose, industrial, automotive, audio-video
- Coupling, decoupling, smoothing, filtering, buffering
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant



Aluminum Caps, Leaded Vishay

### 6.3 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-33102	MAL202133102E3	BA	1000 $\mu\text{F}$	8 x 18	1.71	1.41	1.26	1.13

### 10 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-34101	MAL202134101E3	BA	100 $\mu\text{F}$	4.5 x 10	.75	.64	.52	.46
594-2222-021-34221	MAL202134221E3	BA	220 $\mu\text{F}$	6 x 10	1.22	1.01	.87	.79
594-2222-021-34331	MAL202134331E3	BA	330 $\mu\text{F}$	8 x 11	1.51	1.22	1.10	.98
594-2222-021-34471	MAL202134471E3	BA	470 $\mu\text{F}$	6.5 x 18	1.51	1.22	1.10	.98
594-2222-021-34102	MAL202134102E3	BA	1000 $\mu\text{F}$	10 x 18	1.07	.98	.96	.85
594-2222-021-14332	MAL202114332E3	AA	3300 $\mu\text{F}$	12.5 x 30	2.59	2.09	1.82	1.59

### 16 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-35689	MAL202135689E3	BA	68 $\mu\text{F}$	4.5 x 10	1.15	.94	.80	.72
594-2222-021-35151	MAL202135151E3	BA	150 $\mu\text{F}$	6 x 10	1.22	1.01	.87	.79
594-2222-021-35221	MAL202135221E3	BA	220 $\mu\text{F}$	8 x 11	1.51	1.22	1.10	.98
594-2222-021-35331	MAL202135331E3	BA	330 $\mu\text{F}$	6.5 x 18	1.05	.89	.73	.65
594-2222-021-35471	MAL202135471E3	BA	470 $\mu\text{F}$	8 x 18	1.21	1.03	.84	.75
594-2222-021-90518	MAL202190518E3	BA	1000 $\mu\text{F}$	10 x 25	1.76	1.49	1.22	1.09
594-2222-021-15102	MAL202115102E3	AA	1000 $\mu\text{F}$	10 x 30	2.03	1.65	1.44	1.26
594-2222-021-15222	MAL202115222E3	AA	2200 $\mu\text{F}$	12.5 x 30	2.11	1.94	1.75	1.58
594-2222-021-15332	MAL202115332E3	AA	3300 $\mu\text{F}$	15 x 30	2.42	2.23	2.18	1.94
594-2222-021-15472	MAL202115472E3	AA	4700 $\mu\text{F}$	18 x 30	3.02	2.63	2.38	2.16
594-2222-021-15103	MAL202115103E3	AA	10000 $\mu\text{F}$	21 x 38	4.78	4.40	4.30	3.82

### 25 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-36479	MAL202136479E3	BA	47 $\mu\text{F}$	4.5 x 10	1.15	.94	.80	.72
594-2222-021-36101	MAL202136101E3	BA	100 $\mu\text{F}$	6 x 10	1.22	1.01	.87	.79
594-2222-021-36221	MAL202136221E3	BA	220 $\mu\text{F}$	6.5 x 18	1.51	1.22	1.10	.98
594-2222-021-36331	MAL202136331E3	BA	330 $\mu\text{F}$	8 x 18	1.21	1.03	.84	.75
594-2222-021-36471	MAL202136471E3	BA	470 $\mu\text{F}$	10 x 18	1.98	1.63	1.42	1.29
594-2222-021-90528	MAL202190528E3	BA	680 $\mu\text{F}$	10 x 25	1.53	1.40	1.27	1.16
594-2222-021-16102	MAL202116102E3	AA	1000 $\mu\text{F}$	12.5 x 30	2.26	1.81	1.60	1.40
594-2222-021-16152	MAL202116152E3	AA	1500 $\mu\text{F}$	12.5 x 30	2.66	2.25	1.84	1.63
594-2222-021-16222	MAL202116222E3	AA	2200 $\mu\text{F}$	15 x 30	2.50	2.29	2.16	1.92
594-2222-021-16332	MAL202116332E3	AA	3300 $\mu\text{F}$	18 x 30	3.08	2.82	2.67	2.37
594-2222-021-90062	MAL202190062E3	AA	4700 $\mu\text{F}$	18 x 38	3.51	3.23	3.01	2.73
594-2222-021-16682	MAL202116682E3	AA	6800 $\mu\text{F}$	21 x 38	4.54	4.08	3.53	3.08

### 40 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-37229	MAL202137229E3	BA	22 $\mu\text{F}$	4.5 x 10	1.15	.94	.80	.72
594-2222-021-37479	MAL202137479E3	BA	47 $\mu\text{F}$	6 x 10	1.22	1.01	.87	.79
594-2222-021-37101	MAL202137101E3	BA	100 $\mu\text{F}$	6.5 x 18	1.51	1.22	1.10	.98
594-2222-021-90538	MAL202190538E3	BA	100 $\mu\text{F}$	8 x 11	1.05	.89	.73	.65
594-2222-021-37221	MAL202137221E3	BA	220 $\mu\text{F}$	10 x 18	1.98	1.63	1.42	1.29
594-2222-021-37331	MAL202137331E3	BA	330 $\mu\text{F}$	10 x 25	1.53	1.40	1.27	1.16
594-2222-021-90515	MAL202190515E3	BA	470 $\mu\text{F}$	10 x 25	1.38	1.27	1.17	1.15
594-2222-021-17471	MAL202117471E3	AA	470 $\mu\text{F}$	10 x 30	1.59	1.40	1.37	1.22
594-2222-021-17681	MAL202117681E3	AA	680 $\mu\text{F}$	12.5 x 30	2.16	1.77	1.53	1.36
594-2222-021-17102	MAL202117102E3	AA	1000 $\mu\text{F}$	12.5 x 30	2.03	1.88	1.67	1.53
594-2222-021-17152	MAL202117152E3	AA	1500 $\mu\text{F}$	15 x 30	2.40	2.21	2.16	1.92
594-2222-021-17222	MAL202117222E3	AA	2200 $\mu\text{F}$	18 x 30	3.35	2.99	2.69	2.39
594-2222-021-17332	MAL202117332E3	AA	3300 $\mu\text{F}$	18 x 38	4.08	3.73	3.21	2.91
594-2222-021-17472	MAL202117472E3	AA	4700 $\mu\text{F}$	21 x 38	5.11	4.70	4.59	4.08

### 63 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-38477	MAL202138477E3	BA	0.47 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-38108	MAL202138108E3	BA	1 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-38109	MAL202138109E3	BA	10 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-38228	MAL202138228E3	BA	2.2 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-38338	MAL202138338E3	BA	3.3 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-38478	MAL202138478E3	BA	4.7 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-38159	MAL202138159E3	BA	15 $\mu\text{F}$	4.5 x 10	1.15	.94	.80	.72
594-2222-021-38229	MAL202138229E3	BA	22 $\mu\text{F}$	6 x 10	1.15	.94	.80	.72
594-2222-021-38339	MAL202138339E3	BA	33 $\mu\text{F}$	6 x 10	1.22	1.01	.87	.79
594-2222-021-38479	MAL202138479E3	BA	47 $\mu\text{F}$	6.5 x 18	1.51	1.22	1.10	.98
594-2222-021-90542	MAL202190542E3	BA	47 $\mu\text{F}$	8 x 11	1.51	1.22	1.10	.98
594-2222-021-38689	MAL202138689E3	BA	68 $\mu\text{F}$	6.5 x 18	1.51	1.22	1.10	.98
594-2222-021-90545	MAL202190545E3	BA	68 $\mu\text{F}$	8 x 11	1.05	.89	.73	.65
594-2222-021-38101	MAL202138101E3	BA	100 $\mu\text{F}$	8 x 18	1.71	1.41	1.26	1.13
594-2222-021-38151	MAL202138151E3	BA	150 $\mu\text{F}$	10 x 18	1.98	1.63	1.42	1.29
594-2222-021-90512	MAL202190512E3	BA	220 $\mu\text{F}$	10 x 25	1.36	1.25	1.22	1.09
594-2222-021-18221	MAL202118221E3	AA	220 $\mu\text{F}$	10 x 30	1.97	1.67	1.37	1.21
594-2222-021-18331	MAL202118331E3	AA	330 $\mu\text{F}$	12.5 x 30	2.16	1.77	1.53	1.36
594-2222-021-18471	MAL202118471E3	AA	470 $\mu\text{F}$	12.5 x 30	1.95	1.85	1.75	1.56
594-2222-021-18681	MAL202118681E3	AA	680 $\mu\text{F}$	15 x 30	2.93	2.37	2.06	1.79
594-2222-021-18102	MAL202118102E3	AA	1000 $\mu\text{F}$	18 x 30	3.44	2.86	2.58	2.29
594-2222-021-18152	MAL202118152E3	AA	1500 $\mu\text{F}$	18 x 38	3.82	3.53	3.14	2.88
594-2222-021-18222	MAL202118222E3	AA	2200 $\mu\text{F}$	21 x 38	4.93	4.53	4.43	3.94

### 100 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Pack-aging	Value ( $\mu\text{F}$ )	Case Size DxL (mm)	Price Each			
					1	10	50	100
594-2222-021-39108	MAL202139108E3	BA	1 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-39228	MAL202139228E3	BA	2.2 $\mu\text{F}$	4.5 x 10	1.08	.89	.77	.64
594-2222-021-39478	MAL202139478E3	BA	4.7 $\mu\text{F}$	4.5 x 10	1.15	.94	.80	.72
594-2222-021-39109	MAL202139109E3	BA	10 $\mu\text{F}$	6 x 10	.79	.67	.55	.49
594-2222-021-39229	MAL202139229E3	BA	22 $\mu\text{F}$	6.5 x 18	1.51	1.22	1.10	.98
594-2222-021-39479	MAL202139479E3	BA	47 $\mu\text{F}$	8 x 18	1.21	1.03	.84	1.13
594-2222-021-39689	MAL202139689E3	BA	68 $\mu\text{F}$	10 x 1				