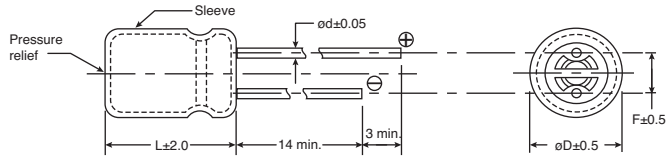


PANASONIC Radial Aluminum Electrolytics EE-ED/EE Panasonic

RoHS Compliant This product is RoHS compliant.

DIMENSIONS: mm

DIMENSIONS: mm		
Body Dia. øD	Lead Dia. ød	Lead Space F
10	0.6	5.0
12.5	0.6	5.0
16	0.8	7.5
18	0.8	7.5



ED SERIES - TYPE A

- Features:**
- High ripple current (at high frequency)
 - Endurance: 105°C 8000h to 10000 hours
 - Including low profile products (20mm height)
 - RoHS directive compliant

- Specifications:**
- Category temperature range: -25°C to +105°C
 - Rated W.V. Range: 160VDC to 450VDC
 - Capacitance range: 10µF to 330µF
 - Capacitance tolerance: ±20% at 120Hz/20°C
 - DC leakage current: ≤0.06CV+10(µA) After 2 minutes application of rated working voltage at +20°C

Frequency (Hz)	Cap. (µF)					
	50 ≤ f < 120	120 ≤ f < 300	300 ≤ f < 1 k	1 k ≤ f < 10 k	10 k ≤ f < 30 k	30 k ≤ f < 100 k
Cap. < 100µF	0.30	0.40	0.55	0.70	0.90	1.00
100µF ≤ Cap.	0.35	0.45	0.60	0.75	0.90	1.00

EE SERIES - TYPE A

- Features:**
- High ripple current (at high frequency): 40% higher than ED Series
 - Endurance: 105°C 8000h to 10000 hours
 - RoHS directive compliant

- Specifications:**
- Category temperature range: -25°C to +105°C
 - Rated W.V. Range: 160VDC to 450VDC
 - Capacitance range: 10µF to 330µF
 - Capacitance tolerance: ±20% at 120Hz/20°C
 - DC leakage current: ≤0.06 CV+10(µA) After 2 minutes
 - Tan δ = (W.V./D.F.) @ 120Hz/±20°C: 0.60/0.15, 200/0.15, 250/0.15, 350/0.20, 400/0.24, 450/0.24

W.V. (V. DC)	Cap. (µF)	Frequency (Hz)					
		60 ≤	120 ≤	300 ≤	1k ≤	10k ≤	100k ≤
160 to 450	10 to 82	0.25	0.35	0.50	0.65	0.90	1.00
	100 to 330	0.30	0.40	0.55	0.70	0.90	1.00

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Panasonic Part No.	Value (µF)	Voltage (VDC)	Dimensions (DxL) (mm)	Price Each			
					1	25	100	500
					1	25	100	500
667-EEU-ED2C220	EEU-ED2C220	22	160	10x20	.71	.418	.358	.284
667-EEU-ED2C330	EEU-ED2C330	33	160	10x20	.71	.418	.358	.284
667-EEU-ED2C470	EEU-ED2C470	47	160	10x20	.71	.418	.358	.284
667-EEU-ED2C680	EEU-ED2C680	68	160	12.5x20	.99	.623	.536	.415
667-EEU-ED2C820	EEU-ED2C820	82	160	12.5x25	1.14	.777	.672	.508
667-EEU-ED2C101	EEU-ED2C101	100	160	12.5x25	1.14	.777	.672	.508
667-EEU-ED2C101S	EEU-ED2C101S	100	160	16x20	1.43	.979	.847	.64
667-EEU-ED2C151	EEU-ED2C151	150	160	16x25	1.55	1.06	.917	.693
667-EEU-ED2C151S	EEU-ED2C151S	150	160	18x20	1.85	1.27	1.09	.827
667-EEU-ED2C221	EEU-ED2C221	220	160	16x31.5	1.82	1.28	1.12	.855
667-EEU-ED2C221S	EEU-ED2C221S	220	160	18x25	1.87	1.32	1.15	.858
667-EEU-ED2C331	EEU-ED2C331	330	160	18x31.5	3.17	2.20	1.99	1.48
667-EEU-ED2D220	EEU-ED2D220	22	200	10x20	.71	.418	.358	.284
667-EEU-ED2D330	EEU-ED2D330	33	200	10x20	.71	.418	.358	.284
667-EEU-ED2D470	EEU-ED2D470	47	200	12.5x20	.99	.623	.536	.415
667-EEU-ED2D680	EEU-ED2D680	68	200	12.5x25	1.14	.777	.672	.508
667-EEU-ED2D680S	EEU-ED2D680S	68	200	16x20	1.43	.979	.847	.64
667-EEU-ED2D820S	EEU-ED2D820S	82	200	16x20	1.43	.979	.847	.64
667-EEU-ED2D101S	EEU-ED2D101S	100	200	18x20	1.85	1.27	1.09	.827
667-EEU-ED2D101	EEU-ED2D101	100	200	16x25	1.55	1.06	.917	.693
667-EEU-ED2D151	EEU-ED2D151	150	200	16x25	1.55	1.06	.917	.693
667-EEU-ED2D221	EEU-ED2D221	220	200	18x31.5	3.17	2.20	1.99	1.48
667-EEU-ED2D331	EEU-ED2D331	330	200	18x40	4.28	2.97	2.69	2.00
667-EEU-ED2E220	EEU-ED2E220	22	250	10x20	.71	.418	.358	.284
667-EEU-ED2E330	EEU-ED2E330	33	250	12.5x20	.99	.623	.536	.415
667-EEU-ED2E470	EEU-ED2E470	47	250	12.5x25	1.14	.777	.672	.508
667-EEU-ED2E470S	EEU-ED2E470S	47	250	16x20	1.43	.979	.847	.64
667-EEU-ED2E680S	EEU-ED2E680S	68	250	16x20	1.43	.979	.847	.64
667-EEU-ED2E820	EEU-ED2E820	82	250	16x25	1.55	1.06	.917	.693
667-EEU-ED2E820S	EEU-ED2E820S	82	250	18x20	1.85	1.27	1.09	.827
667-EEU-ED2E101	EEU-ED2E101	100	250	16x31.5	1.82	1.28	1.12	.855
667-EEU-ED2E101S	EEU-ED2E101S	100	250	18x25	1.87	1.32	1.15	.858
667-EEU-ED2E151	EEU-ED2E151	150	250	18x31.5	3.17	2.20	1.99	1.48
667-EEU-ED2E221	EEU-ED2E221	220	250	18x40	4.28	2.97	2.69	2.00
667-EEU-ED2V100	EEU-ED2V100	10	350	10x20	.82	.482	.413	.327
667-EEU-ED2V220	EEU-ED2V220	22	350	12.5x20	1.00	.687	.594	.449
667-EEU-ED2V330S	EEU-ED2V330S	33	350	16x20	1.61	1.10	.955	.721
667-EEU-ED2V470	EEU-ED2V470	47	350	16x25	1.79	1.22	1.06	.80
667-EEU-ED2V470S	EEU-ED2V470S	47	350	18x20	1.92	1.36	1.18	.904
667-EEU-ED2V680	EEU-ED2V680	68	350	16x31.5	2.13	1.51	1.31	1.00
667-EEU-ED2V680S	EEU-ED2V680S	68	350	18x25	2.24	1.58	1.38	1.05
667-EEU-ED2V820S	EEU-ED2V820S	82	350	18x25	2.24	1.58	1.38	1.05
667-EEU-ED2V101	EEU-ED2V101	100	350	18x31.5	3.17	2.20	1.99	1.48
667-EEU-ED2G100	EEU-ED2G100	10	400	10x20	.82	.482	.413	.327
667-EEU-ED2G150	EEU-ED2G150	15	400	12.5x20	1.00	.687	.594	.449
667-EEU-ED2G220	EEU-ED2G220	22	400	12.5x25	1.25	.858	.742	.561
667-EEU-ED2G220S	EEU-ED2G220S	22	400	16x20	1.61	1.10	.955	.721
667-EEU-ED2G330S	EEU-ED2G330S	33	400	16x20	1.61	1.10	.955	.721
667-EEU-ED2G470	EEU-ED2G470	47	400	16x25	1.79	1.22	1.06	.80
667-EEU-ED2G470S	EEU-ED2G470S	47	400	18x20	1.92	1.36	1.18	.904
667-EEU-ED2G680	EEU-ED2G680	68	400	18x31.5	3.17	2.20	1.99	1.48
667-EEU-ED2G820	EEU-ED2G820	82	400	18x40	4.28	2.97	2.69	2.00
667-EEU-ED2W100	EEU-ED2W100	10	450	12.5x20	1.00	.687	.594	.449
667-EEU-ED2W150	EEU-ED2W150	15	450	12.5x25	1.14	.777	.672	.508
667-EEU-ED2W220S	EEU-ED2W220S	22	450	16x20	1.61	1.10	.955	.721
667-EEU-ED2W330	EEU-ED2W330	33	450	16x31.5	2.13	1.51	1.31	1.00
667-EEU-ED2W330S	EEU-ED2W330S	33	450	18x25	2.24	1.58	1.38	1.05
667-EEU-ED2W470	EEU-ED2W470	47	450	18x31.5	3.17	2.20	1.99	1.48
667-EEU-ED2W680	EEU-ED2W680	68	450	18x40	4.28	2.97	2.69	2.00

MOUSER STOCK NO.	Panasonic Part No.	Value (µF)	Voltage (VDC)	Dimensions (DxL) (mm)	Price Each			
					1	25	100	500
667-EEU-EE2C220	EEU-EE2C220	22	160	10x20	.75	.439	.376	.298
667-EEU-EE2C330	EEU-EE2C330	33	160	10x20	.75	.439	.376	.298
667-EEU-EE2C470	EEU-EE2C470	47	160	10x20	.75	.439	.376	.298
667-EEU-EE2C680	EEU-EE2C680	68	160	12.5x20	1.03	.652	.562	.435
667-EEU-EE2C820	EEU-EE2C820	82	160	12.5x25	1.16	.795	.688	.52
667-EEU-EE2C101	EEU-EE2C101	100	160	12.5x25	1.16	.795	.688	.52
667-EEU-EE2C101S	EEU-EE2C101S	100	160	16x20	1.49	1.02	.882	.666
667-EEU-EE2C151	EEU-EE2C151	150	160	16x25	1.73	1.18	1.02	.773
667-EEU-EE2C151S	EEU-EE2C151S	150	160	18x20	1.85	1.26	1.09	.826
667-EEU-EE2C221	EEU-EE2C221	220	160	16x31.5	3.25	2.30	2.00	1.53
667-EEU-EE2C221S	EEU-EE2C221S	220	160	18x25	3.25	2.30	2.00	1.53
667-EEU-EE2C331	EEU-EE2C331	330	160	18x31.5	3.25	2.30	2.00	1.53
667-EEU-EE2D220	EEU-EE2D220	22	200	10x20	.75	.439	.376	.298
667-EEU-EE2D330	EEU-EE2D330	33	200	10x20	.75	.439	.376	.298
667-EEU-EE2D470	EEU-EE2D470	47	200	12.5x20	1.03	.652	.562	.435
667-EEU-EE2D680	EEU-EE2D680	68	200	12.5x25	1.16	.795	.688	.52
667-EEU-EE2D680S	EEU-EE2D680S	68	200	16x20	1.49	1.02	.882	.666
667-EEU-EE2D820S	EEU-EE2D820S	82	200	16x20	1.49	1.02	.882	.666
667-EEU-EE2D101	EEU-EE2D101	100	200	16x25	1.73	1.18	1.02	.773
667-EEU-EE2D101S	EEU-EE2D101S	100	200	18x20	1.85	1.26	1.09	.826
667-EEU-EE2D151	EEU-EE2D151	150	200	16x25	1.73	1.18	1.02	.773
667-EEU-EE2D221	EEU-EE2D221	220	200	18x31.5	3.25	2.30	2.00	1.53
667-EEU-EE2D331	EEU-EE2D331	330	200	18x40	4.28	2.97	2.69	2.00
667-EEU-EE2E220	EEU-EE2E220	22	250	10x20	.75	.439	.376	.298
667-EEU-EE2E330	EEU-EE2E330	33	250	12.5x20	1.03	.652	.562	.435
667-EEU-EE2E470	EEU-EE2E470	47	250	12.5x25	1.16	.795	.688	.52
667-EEU-EE2E470S	EEU-EE2E470S	47	250	16x20	1.49	1.02	.882	.666
667-EEU-EE2E680S	EEU-EE2E680S	68	250	16x20	1.49	1.02	.882	.666
667-EEU-EE2E820	EEU-EE2E820	82	250	16x25	1.73	1.18	1.02	.773
667-EEU-EE2E101	EEU-EE2E101	100	250	16x31.5	1.85	1.26	1.09	.826
667-EEU-EE2E101S	EEU-EE2E101S	100	250	18x25	1.97	1.39	1.21	.928
667-EEU-EE2E151	EEU-EE2E151	150	250	18x31.5	3.25	2.30	2.00	1.53
667-EEU-EE2E221	EEU-EE2E221							