

TS-ED Series two terminal snap-in

- **NEW PRODUCT**
- Very high ripple current capability for demanding inverter applications
- 3000 hour life at 105°C
- Can vent construction



Rated Working Voltage:	200 ~ 250 VDC	400 ~ 450 VDC
Operating Temperature:	-40 ~ +105°C	-25 ~ +105°C
Nominal Capacitance:	220~2200 µF	56 ~ 560µF
Capacitance Tolerance:	± 20%	
Dissipation Factor:	15% maximum (120Hz, +20°C)	
Endurance:	3000 hours at +105°C with maximum specified ripple current (see page 4)	

Part Number System

E E T
Common Code/
Terminal Type

E D
Series
Code

□ □
Voltage
Code

□ □ □
Capacitance
Code

□ □
Case Dia. /
Terminal

Top Vinyl Plate

Ripple Current
Multipliers:
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Case Dia.	Terminal Length	
	6.3mm	4.0mm
22mm	B	H
25mm	C	J
30mm	D	K
35mm	E	L

A With plate
Without plate

TS-ED Standard Ratings (part numbers shown with standard length terminal and top vinyl plate)

Cap. (µF)	Size (mm) D x L	Max 105°C R.C. (A _{rms})		20°C ESR (Ω, max.)		Panasonic Part Number	Cap. (µF)	Size (mm) D x L	Max 105°C R.C. (A _{rms})		20°C ESR (Ω, max.)		Panasonic Part Number
		120Hz	10k~100kHz	120Hz	20kHz				120Hz	10k~100kHz	120Hz	20kHz	
200 VDC Working, 250 VDC Surge							250 VDC Working, 300 VDC Surge						
270	22 x 25	1.42	2.03	0.553	0.249	EETED2D271BA	220	22 x 30	1.28	1.83	0.678	0.305	EETED2E221BA
330	22 x 30	1.56	2.23	0.452	0.203	EETED2D331BA	270	22 x 30	1.42	2.03	0.553	0.249	EETED2E271BA
390	22 x 30	1.71	2.44	0.383	0.172	EETED2D391BA	330	22 x 35	1.64	2.34	0.452	0.203	EETED2E331BA
470	22 x 35	1.85	2.64	0.317	0.143	EETED2D471BA	390	22 x 40	1.72	2.45	0.383	0.172	EETED2E391BA
560	22 x 40	2.14	3.05	0.266	0.120	EETED2D561BA	470	22 x 45	1.85	2.64	0.317	0.143	EETED2E471BA
680	22 x 45	2.42	3.45	0.219	0.099	EETED2D681BA	270	25 x 25	1.42	2.03	0.553	0.249	EETED2E271CA
820	22 x 50	2.63	3.76	0.182	0.082	EETED2D821BA	330	25 x 30	1.56	2.23	0.452	0.203	EETED2E331CA
390	25 x 25	1.71	2.44	0.383	0.172	EETED2D391CA	390	25 x 30	1.71	2.44	0.383	0.172	EETED2E391CA
470	25 x 30	1.85	2.64	0.317	0.143	EETED2D471CA	470	25 x 35	1.85	2.64	0.317	0.143	EETED2E471CA
560	25 x 30	2.14	3.05	0.266	0.120	EETED2D561CA	560	25 x 40	2.14	3.05	0.266	0.120	EETED2E561CA
680	25 x 35	2.42	3.45	0.219	0.099	EETED2D681CA	680	25 x 45	2.42	3.45	0.219	0.099	EETED2E681CA
820	25 x 40	2.63	3.76	0.182	0.082	EETED2D821CA	390	30 x 25	1.71	2.44	0.383	0.172	EETED2E391DA
1000	25 x 45	2.84	4.06	0.149	0.067	EETED2D102CA	470	30 x 30	1.85	2.64	0.317	0.143	EETED2E471DA
560	30 x 25	2.14	3.05	0.266	0.120	EETED2D561DA	560	30 x 30	2.14	3.05	0.266	0.120	EETED2E561DA
680	30 x 30	2.42	3.45	0.219	0.099	EETED2D681DA	680	30 x 35	2.42	3.45	0.219	0.099	EETED2E681DA
820	30 x 30	2.63	3.76	0.182	0.082	EETED2D821DA	820	30 x 40	2.63	3.76	0.182	0.082	EETED2E821DA
1000	30 x 35	2.84	4.06	0.149	0.067	EETED2D102DA	1000	30 x 50	2.84	4.06	0.149	0.067	EETED2E102DA
1200	30 x 40	3.13	4.47	0.124	0.062	EETED2D122DA	560	35 x 25	2.14	3.05	0.266	0.133	EETED2E561EA
1500	30 x 50	3.56	5.08	0.099	0.050	EETED2D152DA	680	35 x 30	2.42	3.45	0.219	0.110	EETED2E681EA
820	35 x 25	2.63	3.76	0.182	0.091	EETED2D821EA	820	35 x 35	2.63	3.76	0.182	0.091	EETED2E821EA
1000	35 x 30	2.84	4.06	0.149	0.067	EETED2D102EA	1000	35 x 40	2.84	4.06	0.149	0.067	EETED2E102EA
1200	35 x 35	3.13	4.47	0.124	0.062	EETED2D122EA	1200	35 x 45	3.13	4.47	0.124	0.062	EETED2E122EA
1500	35 x 40	3.56	5.08	0.099	0.050	EETED2D152EA	1500	35 x 50	3.56	5.08	0.099	0.050	EETED2E152EA
1800	35 x 45	3.84	5.48	0.083	0.041	EETED2D182EA							
2200	35 x 50	4.12	5.89	0.068	0.041	EETED2D222EA							

TS-ED Standard Ratings (continued)

Cap. (μ F)	Size (mm) D x L	Max 105°C R.C. (A_{rms})		20°C ESR (Ω , max.)		Panasonic Part Number	Cap. (μ F)	Size (mm) D x L	Max 105°C R.C. (A_{rms})		20°C ESR (Ω , max.)		Panasonic Part Number
		120Hz	10k~100kHz	120Hz	20kHz				120Hz	10k~100kHz	120Hz	20kHz	
400 VDC Working, 450 VDC Surge							450 VDC Working, 500 VDC Surge						
82	22 x 25	0.80	1.14	1.617	0.728	EETED2G820BA	56	22 x 25	0.67	0.95	2.368	1.066	EETED2W560BA
100	22 x 30	0.91	1.30	1.326	0.597	EETED2G101BA	68	22 x 30	0.76	1.08	1.950	0.878	EETED2W680BA
120	22 x 35	1.02	1.46	1.105	0.497	EETED2G121BA	82	22 x 30	0.80	1.14	1.617	0.728	EETED2W820BA
150	22 x 40	1.07	1.53	0.884	0.398	EETED2G151BA	100	22 x 35	0.91	1.30	1.326	0.597	EETED2W101BA
180	22 x 45	1.12	1.60	0.737	0.332	EETED2G181BA	120	22 x 40	1.02	1.46	1.105	0.497	EETED2W121BA
220	22 x 50	1.42	2.03	0.603	0.271	EETED2G221BA	150	22 x 45	1.07	1.53	0.884	0.398	EETED2W151BA
100	25 x 25	0.91	1.30	1.326	0.597	EETED2G101CA	180	22 x 50	1.12	1.60	0.737	0.332	EETED2W181BA
120	25 x 30	1.02	1.46	1.105	0.497	EETED2G121CA	68	25 x 25	0.76	1.08	1.950	0.878	EETED2W680CA
150	25 x 30	1.07	1.53	0.884	0.398	EETED2G151CA	82	25 x 25	0.80	1.14	1.617	0.728	EETED2W820CA
180	25 x 35	1.12	1.60	0.737	0.332	EETED2G181CA	100	25 x 30	0.91	1.30	1.326	0.597	EETED2W101CA
220	25 x 40	1.42	2.03	0.603	0.271	EETED2G221CA	120	25 x 35	1.02	1.46	1.105	0.497	EETED2W121CA
270	25 x 45	1.56	2.23	0.491	0.221	EETED2G271CA	150	25 x 40	1.07	1.53	0.884	0.398	EETED2W151CA
150	30 x 25	1.07	1.53	0.884	0.398	EETED2G151DA	180	25 x 40	1.12	1.60	0.737	0.332	EETED2W181CA
180	30 x 30	1.12	1.60	0.737	0.332	EETED2G181DA	220	25 x 45	1.42	2.03	0.603	0.271	EETED2W221CA
220	30 x 30	1.42	2.03	0.603	0.271	EETED2G221DA	120	30 x 25	1.02	1.46	1.105	0.497	EETED2W121DA
270	30 x 35	1.56	2.23	0.491	0.221	EETED2G271DA	150	30 x 30	1.07	1.53	0.884	0.398	EETED2W151DA
330	30 x 40	1.71	2.44	0.402	0.181	EETED2G331DA	180	30 x 30	1.12	1.60	0.737	0.332	EETED2W181DA
390	30 x 45	1.85	2.64	0.340	0.153	EETED2G391DA	220	30 x 35	1.42	2.03	0.603	0.271	EETED2W221DA
220	35 x 25	1.42	2.03	0.603	0.271	EETED2G221EA	270	30 x 40	1.72	2.45	0.491	0.221	EETED2W271DA
270	35 x 30	1.56	2.23	0.491	0.221	EETED2G271EA	330	30 x 50	1.85	2.64	0.402	0.181	EETED2W331DA
330	35 x 30	1.71	2.44	0.402	0.181	EETED2G331EA	150	35 x 25	1.07	1.53	0.884	0.398	EETED2W151EA
390	35 x 35	1.85	2.64	0.340	0.153	EETED2G391EA	180	35 x 25	1.12	1.60	0.737	0.332	EETED2W181EA
470	35 x 40	2.01	2.87	0.282	0.127	EETED2G471EA	220	35 x 30	1.42	2.03	0.603	0.271	EETED2W221EA
560	35 x 45	2.35	3.36	0.237	0.107	EETED2G561EA	270	35 x 35	1.72	2.45	0.491	0.221	EETED2W271EA
							330	35 x 40	1.85	2.64	0.402	0.181	EETED2W331EA
							390	35 x 40	1.97	2.82	0.340	0.153	EETED2W391EA
							470	35 x 50	2.47	3.53	0.282	0.127	EETED2W471EA