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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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

<b>A</b> 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 <sub>rms</sub> )		20°C ESR (Ω, max.)		Panasonic Part Number	Cap. (μF)	Size (mm) D x L	Max 105°C R.C. (A <sub>rms</sub> )		20°C ESR (Ω, max.)		Panasonic Part Number
		120Hz	10k~100kHz	120Hz	20kHz				120Hz	10k~100kHz	120Hz	20kHz	
<b>200 VDC Working, 250 VDC Surge</b>							<b>250 VDC Working, 300 VDC Surge</b>						
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. ( $\mu$ F)	Size (mm) D x L	Max 105°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number	Cap. ( $\mu$ F)	Size (mm) D x L	Max 105°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number
		120Hz	10k~100kHz	120Hz	20kHz				120Hz	10k~100kHz	120Hz	20kHz	
<b>400 VDC Working, 450 VDC Surge</b>							<b>450 VDC Working, 500 VDC Surge</b>						
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