

TS-XB Series 105°C, 7000 hours

- Designed for long life industrial applications
- Compact size
- Compact size



Rated Working Voltage:	160 ~ 250 VDC	315 ~ 450 VDC											
Operating Temperature:	-40 ~ +105°C	-25 ~ +105°C											
Nominal Capacitance:	180 ~ 2200µF	39 ~ 680µF											
Capacitance Tolerance:	± 20%												
Dissipation Factor:	15% maximum (120Hz, +20°C)												
Leakage Current:	3√CV (µA) max. after 5 minutes; C = Capacitance in µF, V = WV												
Ripple Current Multipliers:	Ripple Current Frequency Factors						Ripple Current Ambient Temperature Factors*						
	Frequency(Hz):	50	60	100~120	500	1k	10k~	Ambient Temperature:	105°C	85°C	70°C	60°C	≤45°C
	160~450WV:	0.75	0.8	1.0	1.2	1.25	1.4	Multiplier:	1.0	1.7	2.0	2.2	2.35
Endurance:	7000 hours at +105°C with maximum specified ripple current (see page 6)												

*Use of temperature ripple current multipliers may limit life to the hours specified for the maximum operating temperature.

Part Number System

E E T
Common Code

X B
Series Code

□ □
Voltage Code

□ □ □
Capacitance Code

Diameter	Diameter / Terminal Code			
	# of pins:	2	2	3
	pin length:	6.3mm	4.0mm	4.0mm
22mm		B	H	P
25mm		C	J	Q
30mm		D	K	R
35mm		E	L	S

(Please see page 10 for details)

Insulation Options	
A	PVC with top plate
	PVC without top plate (no suffix)
J	PET sleeve without plate

TS-XB Standard Ratings (part numbers shown with 2 pins, 6.3mm 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
		120Hz	10kHz~	120Hz	20kHz	
160 VDC Working, 200 VDC Surge						
270	22 x 25	1.10	1.54	0.655	0.295	EETXB2C271BA
330	22 x 30	1.20	1.68	0.536	0.241	EETXB2C331BA
390	22 x 30	1.30	1.82	0.453	0.204	EETXB2C391BA
	25 x 25	1.30	1.82	0.453	0.204	EETXB2C391CA
470	22 x 35	1.40	1.96	0.376	0.169	EETXB2C471BA
	25 x 30	1.40	1.96	0.376	0.169	EETXB2C471CA
560	22 x 40	1.50	2.10	0.316	0.142	EETXB2C561BA
	25 x 30	1.50	2.10	0.316	0.142	EETXB2C561CA
	30 x 25	1.50	2.10	0.316	0.142	EETXB2C561DA
680	22 x 45	1.70	2.38	0.260	0.117	EETXB2C681BA
	25 x 35	1.70	2.38	0.260	0.117	EETXB2C681CA
	30 x 30	1.70	2.38	0.260	0.117	EETXB2C681DA
820	25 x 40	2.00	2.80	0.216	0.097	EETXB2C821CA
	30 x 30	2.00	2.80	0.216	0.097	EETXB2C821DA
1000	25 x 45	2.20	3.08	0.177	0.080	EETXB2C102CA
	30 x 35	2.20	3.08	0.177	0.080	EETXB2C102DA
1200	25 x 50	2.30	3.22	0.160	0.080	EETXB2C122CA
	30 x 40	2.30	3.22	0.160	0.080	EETXB2C122DA
	35 x 35	2.30	3.22	0.160	0.080	EETXB2C122EA
1500	30 x 45	2.50	3.50	0.128	0.064	EETXB2C152DA
	35 x 35	2.50	3.50	0.128	0.064	EETXB2C152EA
1800	30 x 50	2.70	3.78	0.115	0.057	EETXB2C182DA
	35 x 40	2.70	3.78	0.115	0.057	EETXB2C182EA
2200	35 x 50	2.90	4.06	0.094	0.056	EETXB2C222EA
180 VDC Working, 225 VDC Surge						
220	22 x 25	1.00	1.40	0.804	0.36	EETXB2P221BA
270	22 x 25	1.10	1.54	0.655	0.29	EETXB2P271BA
330	22 x 30	1.20	1.68	0.536	0.24	EETXB2P331BA
	25 x 25	1.20	1.68	0.536	0.24	EETXB2P331CA
390	22 x 30	1.30	1.82	0.453	0.20	EETXB2P391BA
	25 x 30	1.30	1.82	0.453	0.20	EETXB2P391CA
	30 x 25	1.30	1.82	0.453	0.20	EETXB2P391DA
470	22 x 40	1.40	1.96	0.376	0.17	EETXB2D471BA
	25 x 35	1.40	1.96	0.376	0.17	EETXB2D471CA
200 VDC Working, 250 VDC Surge						
220	22 x 25	1.00	1.40	0.804	0.36	EETXB2D221BA
270	22 x 30	1.10	1.54	0.655	0.29	EETXB2D271BA
	25 x 25	1.10	1.54	0.655	0.29	EETXB2D271CA
330	22 x 30	1.20	1.68	0.536	0.24	EETXB2D331BA
	25 x 25	1.20	1.68	0.536	0.24	EETXB2D331CA
	25 x 35	1.30	1.82	0.453	0.20	EETXB2D391BA
390	25 x 30	1.30	1.82	0.453	0.20	EETXB2D391CA
	30 x 25	1.30	1.82	0.453	0.20	EETXB2D391DA
	22 x 40	1.40	1.96	0.376	0.17	EETXB2D471BA
25 x 35	1.40	1.96	0.376	0.17	EETXB2D471CA	

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