RTP Series

Richey

- Load life of 2000 hours at 105°C
- High ripple current
- Low Profile

SPECIFICATIONS

Item	Characteristics	
Operating Temperature Range (°C)	-40~+105	-25~+105
Rated Voltage range (V)	10~100 V.DC	160~400V.DC
Capacitance Tolerance (25°C, 120Hz)	± 20%	
Leakage current (μ A)(25°C)	0.01CV or 1.5mA whichever is smaller (after 5 minute application of rated voltage) C: Nominal Capacitance (μ F), V: Rated Voltage (V)	

Dissipation Factor (25°C,120Hz)

Rated Voltage (V)	10	16	25	35	50	63	80	100	160~250	315~400
tan δ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20

Temperature Stability (120Hz)

Rated Voltage		10~100	160~200	250~450
Impedance	Z-25°C/Z+20°C	3	3	8
Ratio	Z-40°C/Z+20°C	12	-	-

Load Life (+105°C)

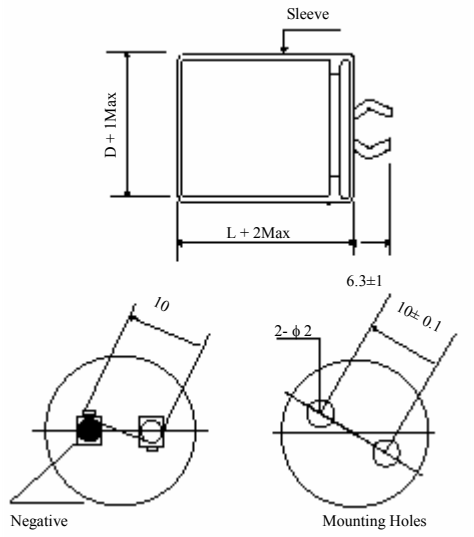
Life Time	2000 hours
Leakage current	Not more than the specified value
Capacitance change	Within ±20% of the initial value
Dissipation Factor	Not more than 200% of the specified value

After 2000 hours application of rated voltage at 105°C (with rated ripple current)

Shelf Life (+105°C)

1000 hours with no voltage applied, the capacitor shall meet the specified limits for "Load Life".
*After test: (V) to be applied for 30 minutes, 24 to 48 hours before measurement.

DIMENSIONS mm



MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz) / Rated Voltage (V)	120	500	1K	10K
10~100	1.0	1.05	1.10	1.15
160~250	1.0	1.14	1.14	1.18
315~400	1.0	1.05	1.10	1.15

STANDARD RATINGS

Wv(V) / Φ DxL(mm)	10		16		25		35		50		63		80		100	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms
22x20	4700	0.98	3300	1.06	2200	0.98	1500	0.80	1000	0.87	680	0.83	470	0.65	330	0.60
22x20	-	-	-	-	-	-	-	-	-	-	-	-	560	0.70	-	-
25x20	5600	1.16	3900	1.25	2700	1.08	1800	0.94	1200	1.02	820	0.99	680	0.84	390	0.71
25x20	6800	1.31	4700	1.38	3300	1.29	2200	1.04	1500	1.15	1000	1.10	-	-	470	0.78
30x20	8200	1.59	5600	1.68	3900	1.58	2700	1.29	1800	1.34	1200	1.20	820	1.04	560	0.95
30x20	10000	1.77	6800	1.80	4700	1.61	3300	1.45	2200	1.60	1500	1.47	1000	1.19	680	1.09
30x20	-	-	-	-	-	-	-	-	-	-	1800	1.52	1200	1.44	820	1.32

Wv (V) / Φ DxL(mm)	160		180		200		250		315		350		400	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms
22x20	120	0.53	100	0.50	100	0.51	68	0.39	47	0.28	39	0.27	33	0.25
22x20	150	0.59	120	0.54	120	0.56	82	0.45	-	-	-	-	-	-
25x20	180	0.70	150	0.63	150	0.65	100	0.59	56	0.34	47	0.31	39	0.28
25x20	220	0.75	180	0.70	-	-	120	0.62	68	0.39	56	0.34	47	0.31
30x20	270	0.95	220	0.85	180	0.78	150	0.76	82	0.45	68	0.40	56	0.36
30x20	330	1.05	270	0.95	220	0.85	180	0.79	100	0.49	82	0.45	68	0.40

Ripple Current: 105°C, 120Hz