

TS Series

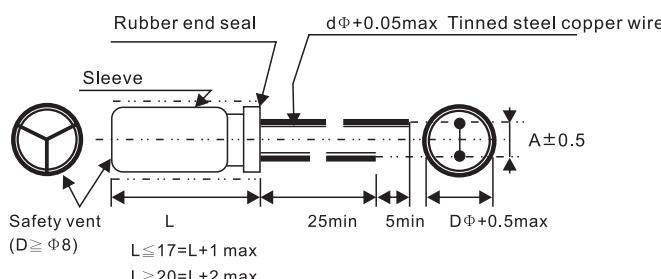
- 105°C, 2000~5000 hours LOW ESR series (紋波疊加)
- 因低電阻電解液有使用，實現了超低ESR超低阻抗



● SPECIFICATIONS

Items	Characteristics						
Category	-55 to +105°C						
Temperature Range							
Rated Voltage Range	6.3v to 50Vdc						
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)						
Leakage Current	$I=0.01CV$ or $3\ \mu A$, whichever is greater. Where, I :Max. Leakage current (μA). C: Nominal capacitance (μF) .V:Rated voltage(V) (at 20°C , after 2 minutes)						
Dissipation Factor (tan δ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10
	(at 20°C ,120Hz)						
	For capacitance>1000uF, and 2% per another 1000uF						
Low Temperature Characteristics	Impedance ration max at 120Hz						
	Working voltage	6.3v	10v	16v	25v	35v	50v
	Z-25°C/ Z+20°C	2	2	2	2	2	2
	Z-40°C/ Z+20°C	3	3	3	3	3	3
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for the specific at 105°C						
	Capacitance change	$\leq \pm 20\%$ of the initial value					ϕD $\phi 5\sim 6.3$ $\phi 8\sim 10$ $\phi 13\sim$
	DF (tan δ)	$\leq 200\%$ of the initial specified value					load life 2000 3000 5000
	Leakage current	\leq The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.						
	Capacitance change	$\leq \pm 20\%$ of the initial value					
	DF (tan δ)	$\leq 200\%$ of the initial specified value					
	Leakage current	\leq The initial specified value					
Ripple Current Multiplier	Temperature coefficient						
	Temperature(°C)	~55	60	70	85	105	
	Factor	2.20	2.10	2.00	1.75	1.00	
	Frequency coefficient						
	cap freq	60	120	1k	10k	100k	
	~100	0.30	0.40	0.75	0.90	1.00	
	100~1000	0.40	0.50	0.85	0.94	1.00	
	1000up	0.50	0.75	0.90	0.95	1.00	

● Diagram: (Unit: mm)



Body Dia ΦD	5	6	8	10	13 $L \leq 21$	$L \geq 25$	16
Lead Dia Φd				0.5	0.6	0.6	0.8
Lead Space A	2	2.5	3.5		5		7.5



富之餘電子實業股份有限公司

Fuhjyyu Electronic Industrial Co.,Ltd.

● STANDARD RATING

Item Cap(μF)	Vdc	6.3v			10v		
		Case size D*L(mm)	Ripple Current (mA/ms)	Impedance (Ω)	Case size D*L(mm)	Ripple Current (mA/ms)	Impedance (Ω)
100	5*11	220	0.35	5*11	250	0.30	
150	5*11	250	0.30	5*11	300	0.220	
220	6.3*11	300	0.13	6.3*11	405	0.130	
330	6.3*11	400	0.13	6.3*11 8*12	430 560	0.130	
470	8*12	650	0.072	8*12	760	0.073	
680	8*12	830	0.059	8*16	995	0.056	
820	8*16	995	0.056	8*20	1100	0.049	
1000	10*12	1030	0.053	8*20 10*17	1250 1430	0.041 0.038	
1200	10*17	1430	0.038	10*20	1820	0.023	
1500	10*20	1850	0.023	10*25	2150	0.022	
2200	10*25	2150	0.022	13*21	2360	0.021	
3300	13*21	2360	0.021	13*25	2770	0.018	
3900	13*25	2770	0.018	13*30	3200	0.016	
4700	13*30	3300	0.016	13*36	3400	0.015	
5600	16*25	3350	0.016	16*25	3500	0.015	
6800	16*25	3450	0.016				

Maximum Ripple Current:(105°C 100KHz)

Maximum Impedance:(20°C 100KHz)

● STANDARD RATING

Item Cap(μF)	Vdc	16v			25v		
		Case size D*L(mm)	Ripple Current (mA/ms)	Impedance (Ω)	Case size D*L(mm)	Ripple Current (mA/ms)	Impedance (Ω)
47	5*11	250	0.300	5*11	250	0.280	
100	6.3*11	400	0.120	6.3*11	400	0.135	
220	8*12	580	0.095	8*12	760	0.072	
330	8*12	760	0.072	8*16 10*13	995 1030	0.056 0.053	
470	8*16	990	0.051	8*20 10*17	1250 1450	0.040 0.038	
680	8*20 10*17	1050 1250	0.041 0.038	10*20	1820	0.023	
820	8*25	1560	0.030	10*25	2150	0.022	
1000	10*20	1800	0.0230	13*20	2350	0.021	
1500	10*25	2230	0.021	13*25	2770	0.018	
2200	13*25	2750	0.018	13*36	3650	0.015	
3300	13*36	3400	0.015	16*25	3700	0.015	

Maximum Ripple Current:(105°C 100KHz)

Maximum Impedance:(20°C 100KHz)

Chip Type SMD	Miniature Type	General Purpose	High Frequency Low Impedance
			High Voltage High Reliability
			Non-polar Type
			Large Size Snap-in
			Large Size Screw
			X Metallized Polypropylene Fine Capacitors



◆ TS series 高紋波 超低阻抗

● STANDARD RATING

Cap(μF)	Vdc	35v			50v		
		Case size D*L(mm)	Ripple Current (mA/ms)	Impedance (Ω)	Case size D*L(mm)	Ripple Current (mA/ms)	Impedance (Ω)
15	5*11	250	0.250	6.3*11	250	0.20	
22	5*11	250	0.250	6.3*11	250	0.20	
33	5*11	250	0.30	6.3*11	280	0.20	
47	6.3*11	350	0.18	8*12	350	0.15	
100	8*12	580	0.095	8*12	720	0.074	
150	8*12	760	0.072	10*13	950	0.061	
220	8*16	990	0.056	10*17	1350	0.042	
330	10*17	1430	0.023	10*25	1850	0.028	
470	10*20	1820	0.023	13*20	2050	0.027	
560	10*25	2150	0.022	13*25	2400	0.023	
680	13*20	2350	0.021	13*30	2850	0.021	
820	13*25	2550	0.020	13*36	2950	0.019	
1000	13*25	2770	0.018	16*25	3000	0.021	
1200	13*30	3250	0.016				

Maximum Ripple Current:(105°C 100KHz)

Maximum Impedance:(20°C 100KHz)