

UZT series

- 105°C 6,000~10,000Hrs assured.
- Low impedance
- For SMPS, IP-Board, Adaptor, Charger
- RoHS compliant
- Halogen-free capacitors are also available.

Super Low ESR **High-Ripple current** **RoHS compliant**

UZS → **UZT**

High ripple

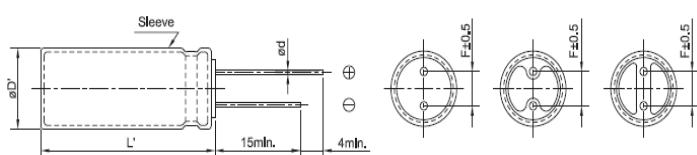


■ Specifications

Item	Characteristics					
Rated Voltage Range	6.3 ~ 50 Vdc					
Operating Temperature Range	-40 ~ +105°C					
Capacitance Tolerance	$\pm 20\%$ (M) (at 20°C, 120Hz)					
Leakage Current	I=0.01CV(μA) or 3μA, whichever is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(VDC) (at 20°C, 2 minutes)					
Dissipation Factor(Tanδ)	Rated voltage (Vdc)	6.3	10	16	25	35
	Tanδ (max.)	0.22	0.19	0.16	0.14	0.12
	If the capacitance exceeds 1,000μF, then Tanδ will be added 0.02 every 1000μF increase.(at 20°C, 120Hz)					
Temperature characteristics (Max,impedance ratio)	Rated voltage (Vdc)	6.3	10	16	25	35
	Z(-25°C)/Z(20°C)	3	2	2	2	2
	Z(-40°C)/Z(20°C)	4	3	3	3	3
	(at 120Hz)					
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times at 105°C.					
	Capacitance change	$\leq \pm 35\%$ (6.3~10) $\leq \pm 25\%$ (16~50) of the initial value				
	Tan δ	$\leq 200\%$ of the initial specified value				
	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 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements.					
	Capacitance change	$\leq \pm 30\%$ (6.3~10), $\leq \pm 25\%$ (16~50) of the initial value				
	Tan δ	$\leq 200\%$ of the initial specified value				
	Leakage current	$\leq 200\%$ The initial specified value				

■ Dimensions

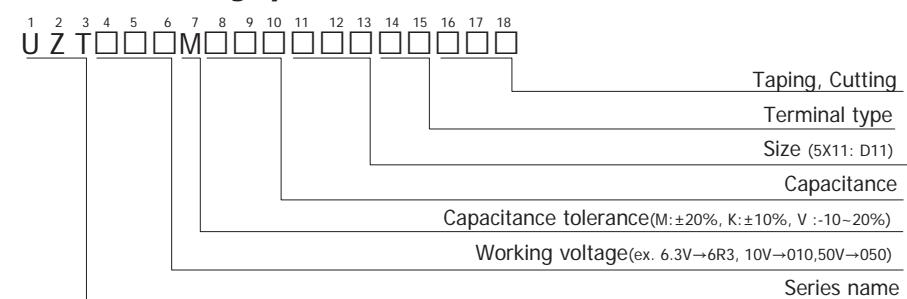
Unit(mm)



ØD	5	6.3	8	10	12.5	16	18
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ØD'	ØD+0.5 max.						
L'	L+1.5 max			L+2.0 max			

- Printed black color letter on PET sky blue sleeve

■ Code numbering system



05	D
06.3	E
08	F
010	G
012.5	X
016	J
018	K

UZT series**■ Standard Ratings**Note1) Imp. = $\Omega_{max}/20^\circ\text{C}, 100\text{kHz}$ 2) Ripple current = mArms/ $105^\circ\text{C}, 100\text{kHz}$

WV (Vdc)	Cap (μF)	Size $\varnothing \times L$ (mm)	Imp. ¹⁾	Ripple ²⁾	Code No	WV (Vdc)	Cap (μF)	Size $\varnothing \times L$ (mm)	Imp. ¹⁾	Ripple ²⁾	Code No
6.3	220	5 x 11	0.22	345	UZT6R3□221D11CS□□□	25	68	5 x 11	0.22	345	UZT025□680D11CS□□□
	330	6.3 x 11	0.18	410	UZT6R3□331E11CS□□□		150	5 x 15	0.13	480	UZT025□151D15CS□□□
	470	5 x 15	0.13	480	UZT6R3□471D15CS□□□			6.3 x 11	0.094	540	UZT025□151E11CS□□□
	560	6.3 x 11	0.094	540	UZT6R3□471E11CS□□□		220	6.3 x 15	0.084	620	UZT025□221E15CS□□□
	820	8 x 11.5	0.056	945	UZT6R3□821F12CS□□□		330	8 x 11.5	0.056	945	UZT025□331F12CS□□□
	1,000	8 x 15	0.051	1,050	UZT6R3□102F15CS□□□		390	8 x 15	0.045	1,250	UZT025□391F15CS□□□
	1,200	8 x 15	0.045	1,250	UZT6R3□122F15CS□□□		470	8 x 15	0.045	1,330	UZT025□471F15CS□□□
	1,500	10 x 12.5	0.039	1,330	UZT6R3□122G13CS□□□		10,000	10 x 12.5	0.039	1,330	UZT025□471G13CS□□□
	1,800	8 x 20	0.029	1,500	UZT6R3□152F20CS□□□		560	8 x 20	0.029	1,500	UZT025□561F20CS□□□
	2,200	10 x 20	0.020	1,960	UZT6R3□222G20CS□□□		680	10 x 16	0.028	1,760	UZT025□681G16CS□□□
	2,700	10 x 25	0.018	2,250	UZT6R3□272G25CS□□□		820	10 x 20	0.020	1,960	UZT025□821G20CS□□□
	3,300	10 x 33	0.015	2,550	UZT6R3□332G33CS□□□		1,000	10 x 20	0.020	1,960	UZT025□102G20CS□□□
	3,900	12.5 x 20	0.016	2,480	UZT6R3□392X200CS□□□		1,200	10 x 25	0.018	2,250	UZT025□102X20CS□□□
	4,700	12.5 x 25	0.015	2,900	UZT6R3□472X25CS□□□		1,500	12.5 x 20	0.017	2,550	UZT025□152X20CS□□□
	5,600	12.5 x 30	0.013	3,450	UZT6R3□562X30CS□□□		1,800	12.5 x 25	0.015	2,900	UZT025□182X25CS□□□
	6,800	12.5 x 35	0.012	3,570	UZT6R3□682X30CS□□□		2,200	16 x 20	0.013	3,450	UZT025□222J20CS□□□
	8,200	16 x 25	0.013	3,630	UZT6R3□822J25CS□□□		2,700	12.5 x 35	0.012	3,570	UZT025□272X35CS□□□
	10,000	18 x 25	0.012	3,650	UZT6R3□103K25CS□□□		3,300	16 x 25	0.015	3,630	UZT025□332J25CS□□□
	150	5 x 11	0.22	345	UZT010□151D11CS□□□		3,900	18 x 25	0.012	3,650	UZT025□392K25CS□□□
10	330	5 x 15	0.13	480	UZT010□331D15CS□□□	35	47	5 x 11	0.22	345	UZT035□470D11CS□□□
	470	6.3 x 11	0.094	540	UZT010□331E11CS□□□		100	5 x 15	0.13	480	UZT035□101D15CS□□□
	680	8 x 11.5	0.084	620	UZT010□471E15CS□□□			6.3 x 11	0.094	540	UZT035□101E11CS□□□
	820	8 x 15	0.056	945	UZT010□681F20CS□□□		150	6.3 x 15	0.084	620	UZT035□151E15CS□□□
	1,000	10 x 12.5	0.045	1,250	UZT010□102F15CS□□□		220	8 x 11.5	0.056	945	UZT035□221F11CS□□□
	1,500	8 x 20	0.029	1,500	UZT010□152F20CS□□□		270	8 x 15	0.045	1,250	UZT035□271F15CS□□□
	1,800	10 x 16	0.028	1,760	UZT010□152G16CS□□□		330	10 x 12.5	0.039	1,210	UZT035□331G13CS□□□
	2,200	10 x 20	0.020	1,960	UZT010□182G20CS□□□		390	8 x 20	0.029	1,500	UZT035□391F20CS□□□
	2,700	10 x 25	0.018	2,250	UZT010□222G25CS□□□		470	8 x 20	0.029	1,600	UZT035□471F20CS□□□
	3,300	10 x 33	0.015	2,550	UZT010□272G33CS□□□		10,000	10 x 16	0.028	1,760	UZT035□471G16CS□□□
	3,900	12.5 x 20	0.017	2,480	UZT010□332X200CS□□□		560	10 x 20	0.020	1,960	UZT035□561G20CS□□□
	4,700	12.5 x 25	0.015	2,900	UZT010□392X25CS□□□		680	10 x 20	0.025	1,850	UZT035□681G20CS□□□
	5,600	12.5 x 30	0.013	3,450	UZT010□472X30CS□□□		1,000	10 x 25	0.018	2,250	UZT035□681G25CS□□□
	6,800	16 x 20	0.015	3,250	UZT010□472J20CS□□□		1,200	12.5 x 20	0.015	2,480	UZT035□102G33CS□□□
	8,200	18 x 25	0.012	3,650	UZT010□822K25CS□□□		1,500	12.5 x 25	0.013	3,450	UZT035□152X30CS□□□
16	100	5 x 11	0.22	345	UZT016□151D11CS□□□		2,200	12.5 x 30	0.012	3,650	UZT035□272K25CS□□□
	220	5 x 15	0.13	480	UZT016□331D15CS□□□		2,700	18 x 25	0.012	3,650	UZT035□272K25CS□□□
	330	6.3 x 11	0.094	540	UZT016□331E11CS□□□		2,2	5 x 11	2.5	120	UZT050□2R2D11CS□□□
	470	8 x 15	0.056	945	UZT016□681F12CS□□□		4.7	5 x 11	2.5	120	UZT050□4R7D11CS□□□
	680	8 x 15	0.045	1,250	UZT016□102F15CS□□□		10	5 x 11	1.0	145	UZT050□100D11CS□□□
	820	10 x 12.5	0.039	1,330	UZT016□102G13CS□□□		22	5 x 11	0.40	195	UZT050□220D11CS□□□
	1,000	8 x 20	0.029	1,500	UZT016□152F20CS□□□		27	5 x 11	0.34	238	UZT050□270D11CS□□□
	1,500	10 x 16	0.028	1,760	UZT016□152G16CS□□□		33	6.3 x 11	0.20	320	UZT050□330E11CS□□□
	1,800	10 x 20	0.020	1,960	UZT016□182G20CS□□□		47	6.3 x 11	0.14	450	UZT050□470E11CS□□□
	2,200	10 x 33	0.015	2,550	UZT016□272G33CS□□□		56	5 x 15	0.16	350	UZT050□560D15CS□□□
	2,700	12.5 x 25	0.015	2,900	UZT016□392X25CS□□□			6.3 x 11	0.14	450	UZT050□560E11CS□□□
	3,300	12.5 x 30	0.013	3,450	UZT016□472X30CS□□□		100	6.3 x 15	0.12	586	UZT050□101E15CS□□□
	3,900	16 x 20	0.015	3,250	UZT016□472J20CS□□□			8 x 11.5	0.074	724	UZT050□101F12CS□□□
	4,700	12.5 x 35	0.012	3,570	UZT016□562X35CS□□□		120	8 x 15	0.061	950	UZT050□121F15CS□□□
	5,600	18 x 25	0.012	3,650	UZT016□682J25CS□□□		150	10 x 12.5	0.061	979	UZT050□151G13CS□□□
	180	8 x 20	0.013	3,630	UZT016□822K25CS□□□		180	8 x 20	0.046	1,190	UZT050□181F20CS□□□
	220	10 x 16	0.042	1,370	UZT050□221G16CS□□□		220	10 x 16	0.042	1,370	UZT050□221G16CS□□□

All of the specifications & dimensions are subject to change without notice

UZT series**■ Standard Ratings**Note1) Imp. = $\Omega_{max}/20^\circ\text{C}, 100\text{kHz}$ 2) Ripple current = mArms/ $105^\circ\text{C}, 100\text{kHz}$

WV (Vdc)	Cap (μF)	Size $\varnothing \times L$ (mm)	Imp. ¹⁾	Ripple ²⁾	Code No
50	270	10 x 20	0.030	1,580	UZT050□271G20CS□□□
	330	10 x 25	0.028	1,870	UZT050□331G25CS□□□
		10 x 30	0.025	2,110	UZT050□471G30CS□□□
	470	12.5 x 20	0.027	2,050	UZT050□471X20CS□□□
	560	12.5 x 25	0.023	2,410	UZT050□561X25CS□□□
	680	12.5 x 30	0.021	2,860	UZT050□681X30CS□□□
		12.5 x 35	0.019	2,960	UZT050□821X35CS□□□
	820	16 x 20	0.023	2,730	UZT050□821J20CS□□□
		16 x 20	0.023	2,730	UZT050□102J20CS□□□
	1,000	16 x 25	0.021	3,010	UZT050□102J25CS□□□
	1,500	18 x 25	0.019	3,290	UZT050□152K25CS□□□

■ Rated ripple current multipliers

Rated voltage (Vdc)	Frequency (Hz)				
	120	1K	10K	50K	100K
2.2 ~ 22	0.40	0.66	0.85	0.90	1.00
27 ~ 33	0.42	0.70	0.90	0.93	1.00
39 ~ 270	0.50	0.73	0.92	0.95	1.00
330 ~ 680	0.55	0.77	0.94	0.96	1.00
820 ~ 1,800	0.60	0.80	0.96	0.97	1.00
2,200 ~ 10,000	0.70	0.85	0.98	0.99	1.00