

Upgrade

GCAP

Screw Terminal Type,
Standard Type

Features

High Power and Long-Term Reliability feature

If GDCPH Ultracapacitor enables this component to use in various applications as backup power unit, auxiliary power unit, instantaneous power compensation, peak power compensation and energy storage as well.



Specification

Rated Voltage	2.7 V	
Surge Voltage ¹	2.85 V	
Capacitance Tolerance	0% / +20%	
Operating temperature range	-40 ~ 65 °C	
Storage temperature range	-40 ~ 70 °C	
Endurance Life (65 °C)	1,500 Hours	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Projected Life Time (25 °C)	10 Years at rated voltage	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Projected Cycle Life (25 °C) ²	1,000,000 Cycles	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Shelf Life (25 °C)	4 Years stored uncharged state	
Certifications	ROHS, REACH,	
Shock & Vibration	IEC 61373, IEC 60068	

Standard Ratings

Part number	Capacitance (F)	Max. ESR (mΩ)	Max. Current (A) Non-repeated (Calculated value)	Leakage Current (mA)	Max. Stored Energy (Wh)	Max. Continuous Current(A) ³		Thermal Resistance (°C/W) _ Cell Surface
						ΔT=15 °C	ΔT=40 °C	
GCAP3000 P270 SQ	3000	0.23	2,396	< 5	3.04	150	245	2.90
GCAP2000 P270 SQ	2000	0.27	1,753	< 4	2.02	126	206	3.50
GCAP1500 P270 SQ	1500	0.28	1,426	< 3	1.51	115	188	4.05
GCAP1200 P270 SQ	1200	0.33	1,160	< 2.7	1.21	98	159	4.73
GCAP650 P650 SQ	650	0.57	640	< 1.5	0.65	67	110	5.86

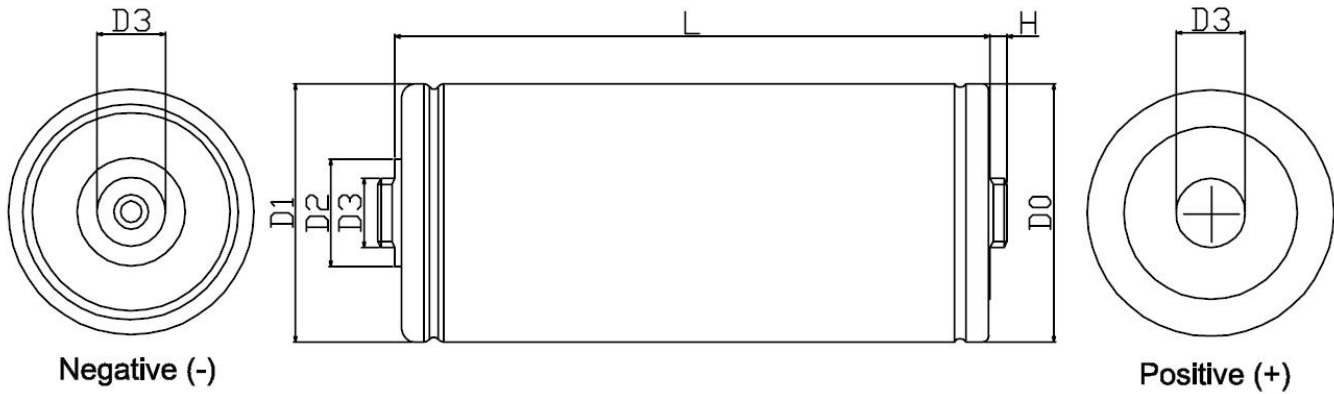
*Remark

1)Non-repeated, not to exceed 1sec.

2)Actual cycle value can be subject to various application conditions.

3)Initial state value.

Physical Properties

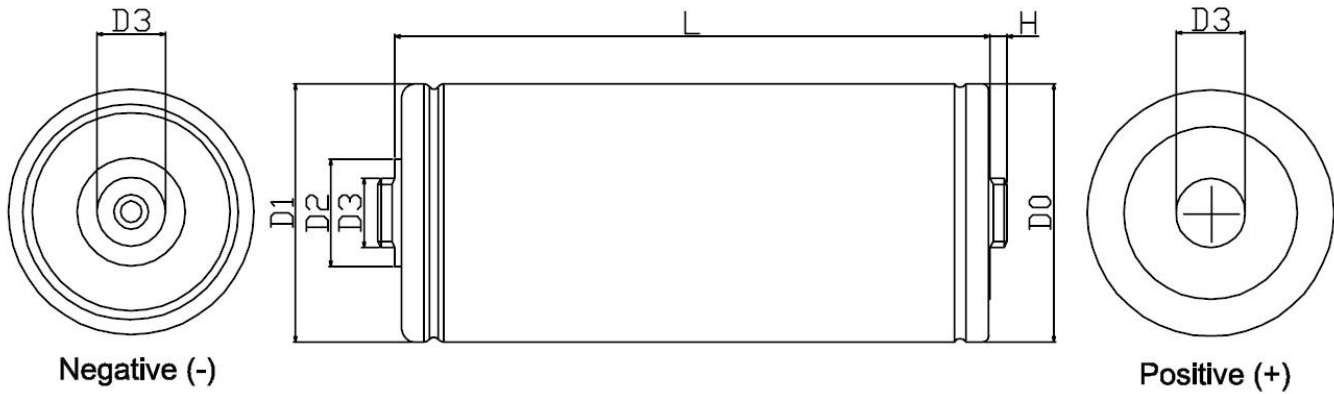


Standard Ratings

Part number (Short Threaded Terminal)	Dimension (mm)						Weight (g)
	D0 (+ 0.6)	D1 (± 0.7)	D2 (±0.1)	D3	H (±0.1)	L (±0.5)	
GCAP3000 P270 SQ ST01	Ø 60	Ø 60.7	Ø 25	M16, P1.0	4	138	515
GCAP2000 P270 SQ ST01	Ø 60	Ø 60.7	Ø 25	M16, P1.0	4	102	380
GCAP1500 P270 SQ ST01	Ø 60	Ø 60.7	Ø 25	M16, P1.0	4	85	320
GCAP1200 P270 SQ ST01	Ø 60	Ø 60.7	Ø 25	M16, P1.0	4	74	280
GCAP650 P270 SQ ST01	Ø 60	Ø 60.7	Ø 25	M16, P1.0	4	51.5	200

Part number (Long Threaded Terminal)	Dimension (mm)						Weigh (g)
	D0 (+ 0.6)	D1 (± 0.7)	D2 (±0.1)	D3	H (±0.1)	L (±0.5)	
GCAP3000 P270 SQ WT01	Ø 60	Ø 60.7	Ø 25	Ø 14	3.18	138	515
GCAP2000 P270 SQ WT01	Ø 60	Ø 60.7	Ø 25	Ø 14	3.18	102	380
GCAP1500 P270 SQ WT01	Ø 60	Ø 60.7	Ø 25	Ø 14	3.18	85	320
GCAP1200 P270 SQ WT01	Ø 60	Ø 60.7	Ø 25	Ø 14	3.18	74	280
GCAP650 P270 SQ WT01	Ø 60	Ø 60.7	Ø 25	Ø 14	3.18	51.5	200

- Physical Properties



- Standard Ratings

Part number (Short Threaded Terminal)	Dimension (mm)						Weight (g)
	D0 (+ 0.6)	D1(± 0.7)	D2 (±0.1)	D3	H (±0.1)	L (±0.5)	
GCAP3000 P270 SQ LT01	Ø 60	Ø 60.7	Ø 25	M16, P2.0	14	138	520
GCAP2000 P270 SQ LT01	Ø 60	Ø 60.7	Ø 25	M16, P2.0	14	102	385
GCAP1500 P270 SQ LT01	Ø 60	Ø 60.7	Ø 25	M16, P2.0	14	85	325
GCAP1200 P270 SQ LT01	Ø 60	Ø 60.7	Ø 25	M16, P2.0	14	74	285
GCAP650 P270 SQ LT01	Ø 60	Ø 60.7	Ø 25	M16, P2.0	14	51.5	205

Part number (Long Threaded Terminal)	Dimension (mm)						Weigh (g)
	D0 (+ 0.6)	D1 (± 0.7)	D2 (±0.1)	D3	H (±0.1)	L (±0.5)	
GCAP3000 P270 SQ LT02	Ø 60	Ø 60.7	Ø 25	M12, P1.75	14	138	520
GCAP2000 P270 SQ LT02	Ø 60	Ø 60.7	Ø 25	M12, P1.75	14	102	385
GCAP1500 P270 SQ LT02	Ø 60	Ø 60.7	Ø 25	M12, P1.75	14	85	325
GCAP1200 P270 SQ LT02	Ø 60	Ø 60.7	Ø 25	M12, P1.75	14	74	285
GCAP650 P270 SQ LT02	Ø 60	Ø 60.7	Ø 25	M12, P1.75	14	51.5	205