

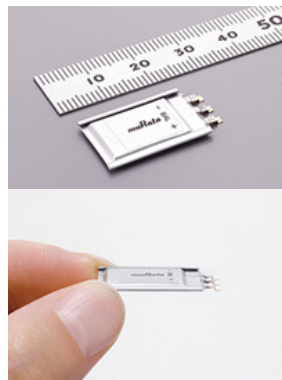
DMT3N4R2U224M3DTA0 / Supercapacitor(EDLC)

DMT series: General-Purpose Type

~Featuring low ESR, small&slim package, and wide operation temperature range up to 85°C ~

[Features]

- High Power: Discharge up to 10A max. per piece
- Low ESR(equivalent series resistance)
- Small and Slim Package (21.0 x 14.0 x 2.2mm)
- Wide Operational Temperature : -40°C to 85°C
- Long life 5years @70 °C
- High Reliability: Characteristic degradation is reduced by airtight package and optimized electrochemical system
- Low leakage current : less than 5μA @96hrs

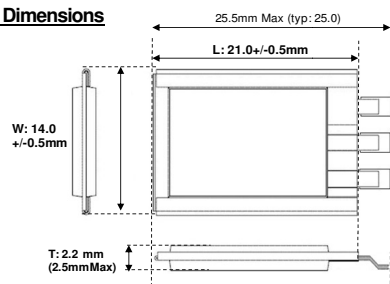


[Application Examples]

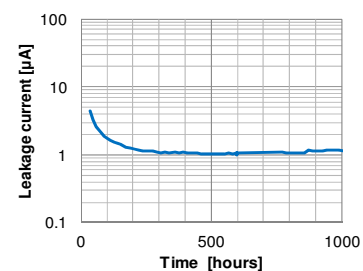
- **Backup** : SSD, PLC, UPS, ATM, etc.
- **Peak power assist** : IoT devices, sensor node, wearable devices, RKE, handy terminals, smart meters(wireless communication system, valve operation), motor-driven devices, e-paper, and so on.
- **Battery Peak Load Leveling** : Portable devices, GPS/GPRS tracking system, POS, Insulin pump, and so on.
- **Energy Harvest** : Supercapacitor can be used as maintenance-free storage device with flexible charge-discharge

Part Number	Rated voltage(V)	Capacitance (mF)	ESR@1kHz (mΩ)	LxW (mm)	Thickness (mm)	Operation temp.
DMT3N4R2U224M3DTA0	4.2	220	300	21 × 14	2.2(2.5Max)	-40°C~+85°C

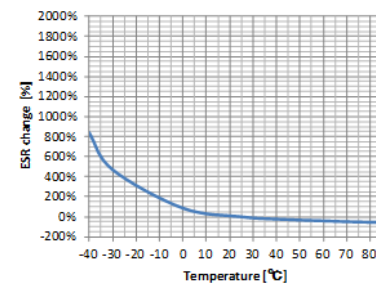
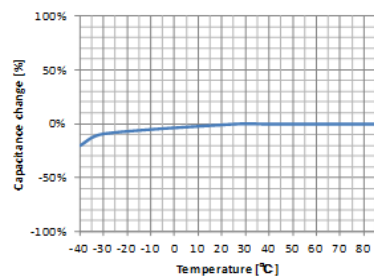
1. Dimensions



2. Leakage Current

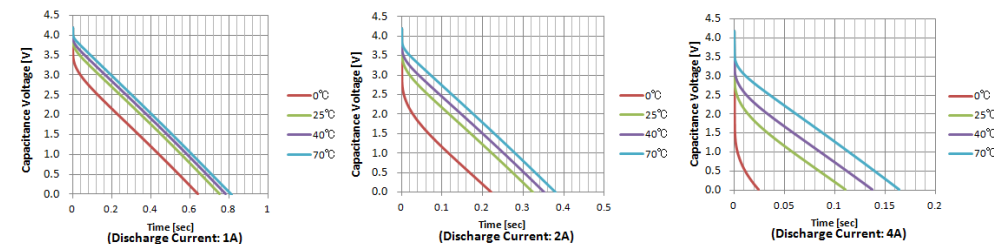


3. Temperature Characteristics(V.S. 25°C)

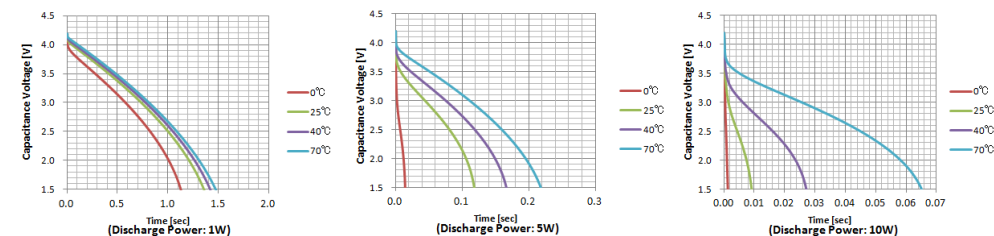


4. Discharge Characteristics

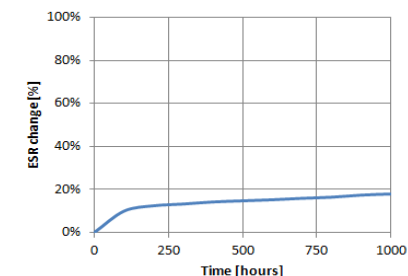
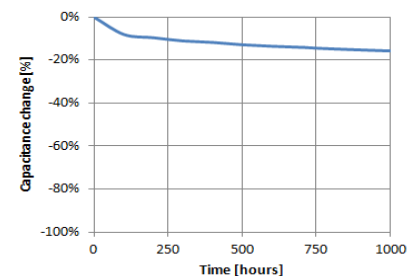
➤ Constant Current Discharge



➤ Constant Power Discharge



5. High Temperature Loading Test (Test Condition: 4.2V / 85°C / 1,000hours)



● Part Numbering

Electrical Double Layer Capacitor

(Part Number)

DMF	3Z	5R5	H	474	M	3D	T	A0
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Series

Code	
DMT	General Purpose Type
DMF	High Peak Power Type

② External Dimension (L×W×T)

Code	L (mm)	W (mm)	T (mm)
3N	21.0±0.5	14.0±0.5	2.2 (2.5 max.)
3Z	21.0±0.5	14.0±0.5	3.2 (3.4 max.)
3B	21.0±0.5	14.0±0.5	3.5 (3.8 max.)
4B	30.0±0.5	14.0±0.5	3.7 (4.0 max.)

③ Rated Voltage

Expressed by three-digit alphanumerics.

Code	Rated Voltage
5R5	DC5.5V
4R2	DC4.2V

④ ESR

Code	ESR@1kHz
G	40mΩ
H	45mΩ
S	130mΩ
U	300mΩ

⑤ Nominal Capacitance

Expressed by three-digit numeric code.

The unit is micro-farad (μF).

The first and second figures are significant digits, and the third figure expresses the number of zero which follow the two numbers.

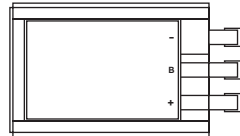
Ex.)

Code	Nominal Capacitance
474	$47 \times 10^4 \mu\text{F} = 470\text{mF}$

⑥ Capacitance Tolerance

Code	Tolerance
M	±20%

⑦ External Terminal

Code	Terminal Specification
3D	3 terminals (+/-/Balance) 

⑧ Packing Code

Code	Packing Specification
T	Tray type, 50pcs/Tray

⑨ Inhouse Specification Code

Expressed by two-digit alphanumerics.