DT series

● Features
- Low ESR, High capacitance
- High power
- Wide range of operating temperature (-40℃～ 70℃)
- Environmentally friendly, RoHS Compliant
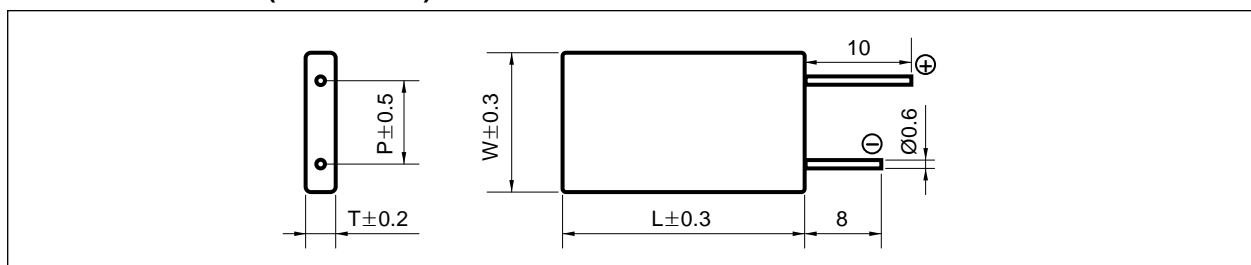- Cost effective

● Applications
- GPS modem pulse assist
- PCMCIA card power assist
- Mobile phone LED camera module
- Zig-bee applications
- AMR(Automatic Meter Reading) applications
- DC Motor drive

12x12.5   17x17.5   28x17.5

● Specifications

Items	Characteristics
Operating Temp.	-40 to +70℃
Storage Temp.	-40 to +70℃
Capacitance Tolerance	-20%/+80% of rated value
ESR (at A.C. 1kHz)	-50%/+20% of rated value
Endurance — After 1000 hrs at 70°C with rated voltage	Capacitance change : ±30% of initial measured value / ESR change : <200% of initial measured value
Endurance — After 1000 hrs at 70°C without load	Capacitance change : ±30% of initial measured value / ESR change : <150% of initial measured value

● Dimensions in mm(not to scale)

● Standard products

Part Number	Operating Voltage (V)	Capacitance (mF)	ESR(Ω, @1kHz)	Leakage Current (µA, 12hr)	Size(mm) WxLxTxP
DT 2R1 803	2.1	80	90	≤ 8	17.5 x 17 x 2.5 x 11
DT 3R5 123	3.5	12	600	≤ 4	12.5 x 12 x 2.4 x 8
DT 3R5 253	3.5	25	300	≤ 6	12.5 x 12 x 3.4 x 8
DT 3R5 503	3.5	50	150	≤ 8	17.5 x 17 x 3.4 x 11
DT 3R5 603	3.5	60	130	≤ 10	17.5 x 28 x 2.4 x 11
DT 3R5 124	3.5	120	65	≤ 20	17.5 x 28 x 3.4 x 11
DT 4R2 103	4.2	10	720	≤ 4	12.5 x 12 x 2.6 x 8
DT 4R2 203	4.2	20	360	≤ 6	12.5 x 12 x 3.9 x 8
DT 4R2 403	4.2	40	180	≤ 8	17.5 x 17 x 3.9 x 11
DT 4R2 503	4.2	50	150	≤ 10	17.5 x 28 x 2.6 x 11
DT 4R2 104	4.2	100	75	≤ 20	17.5 x 28 x 3.9 x 11
DT 5R5 163	5.5	16	500	≤ 6	12.5 x 12 x 4.8 x 8
DT 5R5 303	5.5	30	280	≤ 8	17.5 x 17 x 4.8 x 11
DT 5R5 403	5.5	40	200	≤ 10	17.5 x 28 x 3.1 x 11
DT 5R5 803	5.5	80	100	≤ 20	17.5 x 28 x 4.8 x 11
DT 6R3 123	6.3	12	600	≤ 6	12.5 x 12 x 5.3 x 8
DT 6R3 353	6.3	35	230	≤ 10	17.5 x 28 x 3.4 x 11
DT 6R3 703	6.3	70	115	≤ 20	17.5 x 28 x 5.4 x 11
DT 12R6 153	12.6	15	445	≤ 10	17.5 x 28 x 5.4 x 11

Note : It is not allowed to go through reflow (IR, Atmosphere heating methods etc.) process

● Typical Electrical Characteristics

Capacitance vs. Temperature

ESR vs. Temperature

Capacitance vs. Pulse Width