

# GDT 125°C Standard Series

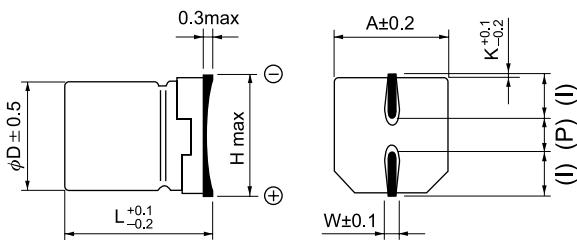
- For surface mounted and high reliability application.
- Operating temperature range up to 125°C.
- Life guaranteed 2,000 hours/125°C.



• Specifications

Item	Performance Characteristics					
Operating Temperature range	-40 + 125°C					
Rated Voltage	10V ~ 50V					
Capacitance Range	10 ~ 330 μF					
Capacitance Tolerance	±20% (120 Hz, 20°C)					
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater after 2 minutes application of rated voltage.					
Dissipation Factor (120 Hz, 20°C)	Rated voltage (V)	10	16	25	35	50
	Tan δ (max.)	0.32	0.24	0.21	0.18	0.18
Temperature Characteristics (120 Hz)	Impedance Ratio / Stability at Low Temperature					
	Rated voltage (V)	10	16	25	35	50
	Z (-25°C) / Z (20°C)	4	3	2	2	2
	Z (-40°C) / Z (20°C)	12	8	6	4	4
Load Life	After 2,000 hours application of WV at 125°C, capacitor shall meet the characteristics mentioned below.					
	Capacitance change	Within ±30% of initial value				
	Tan δ	300% or less of initial specified value				
	Leakage current	Initial specified value or less				
Shelf Life	At 125°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life. (With voltage treatment)					
Resistance to Soldering Heat	Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.					
	Capacitance change	Within ±10% of initial value				
	Tan δ	≤ initial specified value				
	Leakage current	≤ initial specified value				

• Dimension (mm)



Dφ	L	A	H	I	W	P	K
8	10.2	8.3	10.0	3.4	0.90	3.1	0.70
10	10.2	10.3	12.0	3.5	0.90	4.6	0.70

• Standard Products Table

WV(SV) Cap μF	Dφ x L (mm)									
	10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
10									8 x 10.2	34
22									8 x 10.2	50
33									8 x 10.2	60
47							8 x 10.2	75	10 x 10.2	85
100			8 x 10.2	70	8 x 10.2	75	10 x 10.2	120		
220	8 x 10.2	90	10 x 10.2	120	10 x 10.2	120				
330	10 x 10.2	120								

Ripple current (mA) at 125°C 120 Hz