

## GENERAL TECHNICAL CHARACTERISTICS

Reference standards : IEC 61071  
 Climatic category: 40/85/56  
 Dielectric : Polypropylene film  
 Construction : Extended MKP with internal series  
 Case : Polyester tape wrapping; UL94V-0 resin end fill



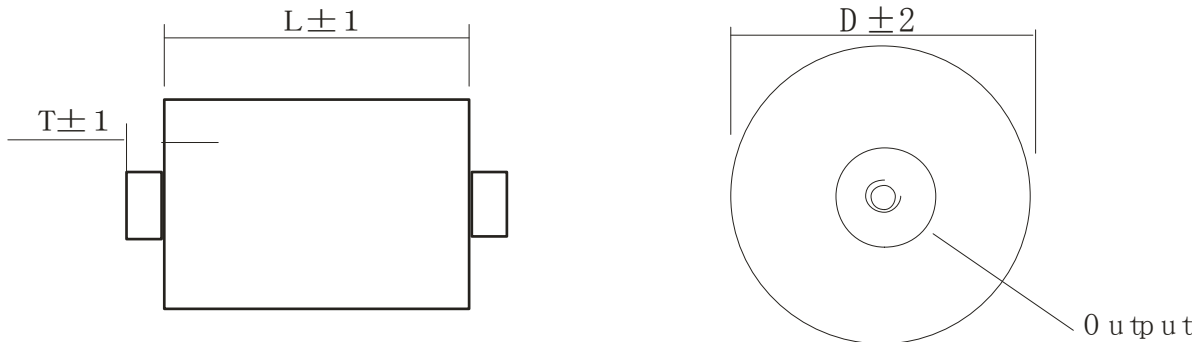
## ELECTRICAL CHARACTERISTICS

Working temperature : -40 to + 85°C (max hotspot  $\leq$  70°C)  
 Storage temperature : -40 to + 85°C  
 Capacitance : 0.068 to 3.0  $\mu$ F  
 Rated Voltage: 4kv to 20k Vdc  
 Dissipation factor:  $< 0.0005$  (1k Hz 20  $\pm$  5°C)  
 Tolerance :  $\pm 5\%$  (J)  $\pm 10\%$  (K)  
 Life expectancy : 100,000 hours at  $U_n$  and 70°C

## TEST METHODS AND PERFORMANCES

Insulation resistance : 30,000s but need not exceed 30G $\Omega$  after 1 minute of electrification at 100Vdc (25  $\pm$  5°C)  
 Test voltage terminal to case : 3 KV 50Hz for 60 sec  
 Dielectric strength: 1.5Ur (DC) applied for 10s at 25  $\pm$  5°C

### Outline drawing



Part Numbering System : DGT5000K.2.0-M6 "M6 " = Out put "M6 or M8"

### Electrical specifications, ordering codes

Part Number	CAP $\mu$ F	Dimension (mm)				du/dt v/ $\mu$ s	Ipeak A	ESR m $\Omega$	Ls nH
		L	D	T	Output				
Un4000Vdc Urms 1600Vac									
DGT4000K0.68#	0.68	50	50	5.0	M6*8	1000	680	2.1	25
DGT4000K0.75#	0.75	50	52	5.0	M6*8	1000	750	2.0	25
DGT4000K1.0#	1.0	50	60	5.0	M8*8	1000	1000	1.5	25
DGT4000K1.5#	1.5	50	73	5.0	M8*8	1000	1500	1.3	25

DGT4000K2.0#	2.0	50	84	5.0	M8*8	750	1500	1.5	25
DGT4000K2.5#	2.5	64	70	5.5	M8*8	750	1875	1.3	25
DGT4000K3.0#	3.0	64	762	5.5	M8*8	750	2250	1.1	25

### Electrical specifications, ordering codes

Part Number	CAP μF	Dimension (mm)				du/dt v/μs	Ipeak A	ESR mΩ	Ls nH
		L	D	T	Output				
Un5000Vdc Urms 2000Vac									
DGT5000K0.5#	0.5	50	53	5.0	M6*8	1100	550	2.2	25
DGT5000K0.68#	0.68	50	62	5.0	M8*8	1100	748	1.8	25
DGT5000K0.75#	0.75	50	65	5.0	M8*8	1100	825	1.6	25
DGT5000K1.0#	1.0	50	74	5.0	M8*8	1100	1100	1.3	25
DGT5000K1.25#	1.25	50	83	5.0	M8*8	1100	1375	1.1	25
DGT5000K1.5#	1.5	50	90	5.0	M8*8	1100	1650	0.9	25
DGT5000K2.0#	2.0	50	102	5.0	M8*8	1100	2200	0.8	25
Un8000Vdc Urms 3200Vac									
DGT8000K0.33#	0.33	80	49	5.0	M6*8	1400	462	4.0	25
DGT8000K0.5#	0.50	80	60	5.0	M8*8	1400	700	2.9	25
DGT8000K0.68#	0.68	80	70	5.0	M8*8	1400	952	2.1	25
DGT8000K0.75#	0.75	80	73	5.0	M8*8	1400	825	1.9	25
DGT8000K0.82#	0.82	114	57	5.0	M6*8	1100	902	3.3	25
DGT8000K1.0#	1.0	114	63	4.5	M8*8	1100	1100	2.7	25
DGT8000K1.5#	1.5	114	76	4.5	M8*8	1100	1650	2.0	25
Un10000Vdc Urms 4000Vac									
DGT10000K0.33#	0.33	98	55	5.0	M6*8	1600	528	4.1	25
DGT10000K0.5#	0.50	98	67	5.0	M8*8	1600	800	3.0	25
DGT10000K0.68#	0.68	98	77	5.0	M8*8	1600	1088	2.3	25
DGT10000K0.75#	0.75	98	81	5.0	M8*8	1600	1200	2.0	25
DGT10000K1.0#	1.0	140	70	5.0	M8*8	1200	1200	3.1	25
DGT10000K1.2#	1.20	140	102	4.5	M8*8	1200	1440	2.4	25
Un 12000vdc Urms 4800Vac									
DGT12000K0.22#	0.22	114	49	5.0	M6*8	1750	385	5.7	25
DGT12000K0.33#	0.33	114	60	5.0	M8*8	1750	578	4.0	25
DGT12000K0.5#	0.50	114	73	5.0	M8*8	1750	875	2.7	25
DGT12000K0.68#	0.68	114	84	5.0	M8*8	1750	1190	2.0	25
DGT12000K0.75#	0.75	114	89	5.0	M8*8	1750	1313	1.9	25
DGT12000K1.0#	1.0	114	102	4.5	M8*8	1750	1750	1.4	25
Un 20000vdc Urms 6600Vac									
DGT20000K0.068#	0.068	130	45	5.0	M6*8	2320	158	12	25
DGT20000K0.1#	0.1	130	54	5.0	M6*8	2320	232	8.2	25
DGT20000K0.15#	0.15	130	65	5.0	M8*8	2320	348	5.6	25
DGT20000K0.22#	0.22	130	79	5.0	M8*8	2320	510	4.0	25

How to Order:

