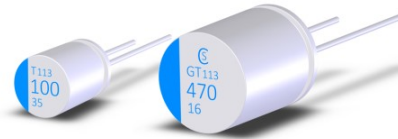


CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



UGT Series NEW

- Low ESR at a high frequency ranged
- High ripple current capability
- 3,000 hours at 105°C



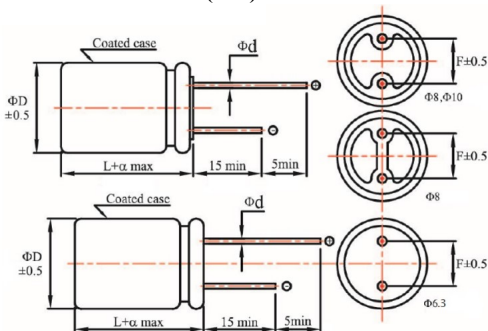
◆ SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-55 ~ +105°C								
Working Voltage Range	6.3 ~ 63Vdc								
Surge Voltage	Rated Voltage × 1.15								
Capacitance Tolerance	M: ±20% (at 25°C and 120Hz)								
ESR	See the standard ratings table (at 25°C, 100~300KHz)								
Dissipation Factor (Tanδ)	See the standard ratings table (at 25°C, 120Hz)								
Leakage Current ※1	See the standard ratings table (Impress the rated voltage for 2 minutes)								
Low Temperature Characteristics Impedance Ratio	$Z(-25^{\circ}\text{C})/Z(+25^{\circ}\text{C}) \leq 1.15$ at 100KHz $Z(-55^{\circ}\text{C})/Z(+25^{\circ}\text{C}) \leq 1.25$ at 100KHz								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage for 3,000 hours at 105°C. <table border="1"> <tr> <td>Capacitance change</td><td>$\leq \pm 20\%$ of the initial value</td></tr> <tr> <td>ESR</td><td>$\leq 150\%$ of the specified value</td></tr> <tr> <td>Dissipation factor(tanδ)</td><td>$\leq 150\%$ of the specified value</td></tr> <tr> <td>Leakage current</td><td>$\leq$ specified value</td></tr> </table>	Capacitance change	$\leq \pm 20\%$ of the initial value	ESR	$\leq 150\%$ of the specified value	Dissipation factor(tanδ)	$\leq 150\%$ of the specified value	Leakage current	$\leq$ specified value
Capacitance change	$\leq \pm 20\%$ of the initial value								
ESR	$\leq 150\%$ of the specified value								
Dissipation factor(tanδ)	$\leq 150\%$ of the specified value								
Leakage current	$\leq$ specified value								
Damp Heat (Steady State)	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 60°C 90 to 95% RH. <table border="1"> <tr> <td>Capacitance change</td><td>$\leq \pm 20\%$ of the initial value</td></tr> <tr> <td>ESR</td><td>$\leq 150\%$ of the specified value</td></tr> <tr> <td>Dissipation factor(tanδ)</td><td>$\leq 150\%$ of the specified value</td></tr> <tr> <td>Leakage current</td><td>$\leq$ specified value</td></tr> </table>	Capacitance change	$\leq \pm 20\%$ of the initial value	ESR	$\leq 150\%$ of the specified value	Dissipation factor(tanδ)	$\leq 150\%$ of the specified value	Leakage current	$\leq$ specified value
Capacitance change	$\leq \pm 20\%$ of the initial value								
ESR	$\leq 150\%$ of the specified value								
Dissipation factor(tanδ)	$\leq 150\%$ of the specified value								
Leakage current	$\leq$ specified value								
Others	Conforms to JIS-C-5101-26 (2012)								

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

※2 ESR should be measured at both of the terminal ends closest to the capacitor body.

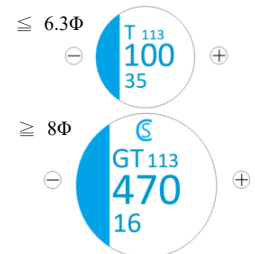
◆ DIMENSIONS (mm)



◆ LEAD

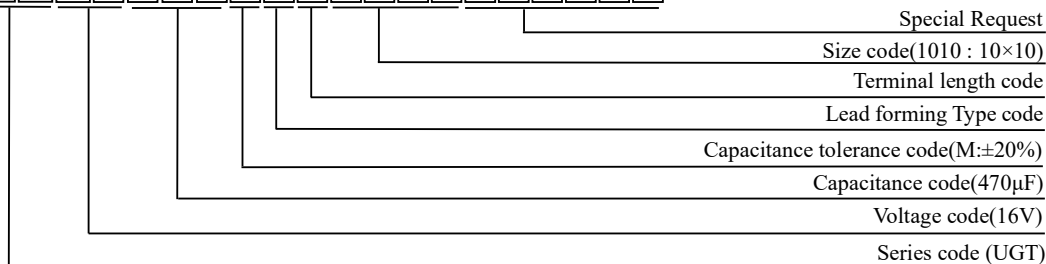
ΦD	6.3	6.3	6.3	8	8	10
Φd	0.45	0.6	0.6	0.6	0.6	0.6
L	5~7	8	12	8	11	10~12
α	1	1	1.5	1	1.5	1.5
F	2.5	2.5	2.5	3.5	3.5	5.0

◆ MARKING



◆ PART NUMBER SYSTEM (Example : 16V 470µF)

U G T 1 C 4 7 1 M N N 1 0 1 0 U



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



UGT Series NEW

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR 100~300KHz (mΩmax)	Rated Ripple current (mA rms/ 105°C, 100KHz)	Tanδ max	Leakage Current (μA max)	Part Number
6.3 (0J)	220	6.3×5	15	3160	0.10	300	UGT0J221MNN6305
	560	6.3×7	12	4800	0.10	706	UGT0J561MNN6307
	560	6.3×8	7	3500	0.12	706	UGT0J561MNN6308
	820	6.3×8	8	4700	0.12	1033	UGT0J821MNN6308
	820	8×8	8	4700	0.12	1033	UGT0J821MNN0808U
	1000	8×8	7	5700	0.12	1260	UGT0J102MNN0808U
	1000	8×11	7	6100	0.12	1260	UGT0J102MNN0811U
10 (1A)	1500	8×11	12	5100	0.12	1890	UGT0J152MNN1010U
	470	8×8	25	2500	0.12	940	UGT1A471MNN0808U
	560	10×12	13	5300	0.12	1120	UGT1A561MNN1012U
	820	8×11	10	5400	0.12	1640	UGT1A821MNN0811U
16 (1C)	100	6.3×5	24	2490	0.12	500	UGT1C101MNN6305
	220	6.3×8	15	3800	0.12	704	UGT1C221MNN6308
	220	8×8	26	2100	0.12	704	UGT1C221MNN0808U
	330	8×8	11	4500	0.12	1056	UGT1C331MNN0808U
	390	6.3×12	11	4500	0.12	1248	UGT1C391MNN6312
	470	6.3×12	11	4500	0.10	1504	UGT1C471MNN6312
	470	10×10	10	6100	0.12	1504	UGT1C471MNN1010U
	680	10×12	14	4800	0.12	2176	UGT1C681MNN1012U
	820	10×12	12	5300	0.12	2624	UGT1C821MNN1012U
	1000	10×12	12	5400	0.12	3200	UGT1C102MNN1012U
25 (1E)	150	8×11	26	2400	0.12	750	UGT1E151MNN0811U
	270	10×12	23	3500	0.12	1350	UGT1E271MNN1012U
	470	10×12	22	2520	0.12	2350	UGT1E471MNN1012U
	680	10×12	20	3100	0.12	3400	UGT1E681MNN1012U
35 (1V)	56	8×8	29	1900	0.12	392	UGT1V560MNN0808U
	100	6.3×8	35	2350	0.12	700	UGT1V101MNN6308
	150	10×12	26	2700	0.12	1050	UGT1V151MNN1012U
50 (1H)	39	8×11	29	2200	0.12	360	UGT1H390MNN0811U
	68	10×12	28	2600	0.12	680	UGT1H680MNN1012U
63 (1J)	22	8×11	35	1800	0.12	300	UGT1J220MNN0811U
	27	8×11	33	2100	0.12	540	UGT1J270MNN0811U
	47	10×12	29	2600	0.12	592	UGT1J470MNN1012U
	150	10×12	30	3000	0.12	1890	UGT1J151MNN1012U