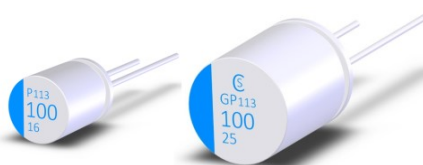


CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



UGP Series

- Low ESR at a high frequency ranged
- High ripple current capability
- 2,000 hours at 105°C



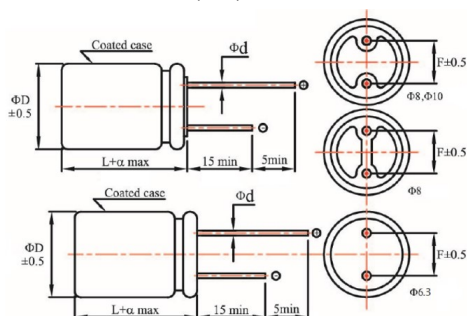
SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-55 ~ +105°C								
Working Voltage Range	10 ~ 25Vdc								
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 2,000 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.

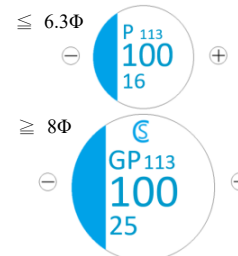
DIMENSIONS (mm)



LEAD

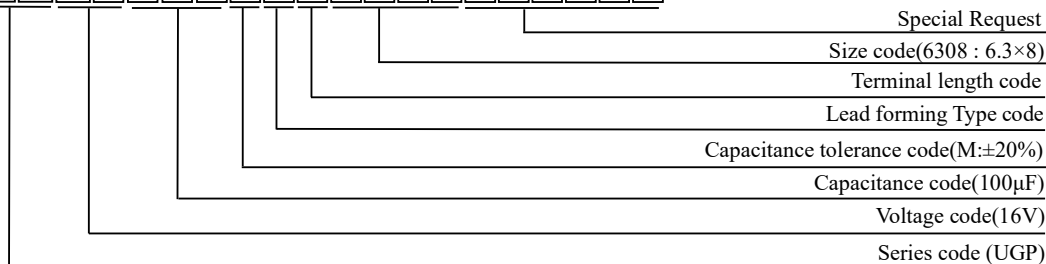
ΦD	6.3	6.3	8	8	10
Φd	0.6	0.6	0.6	0.6	0.6
L	8	11	7~8	11	7~12
α	1	1.5	1	1.5	1.5
F	2.5	2.5	3.5	3.5	5.0

MARKING



PART NUMBER SYSTEM (Example : 16V 100μF)

U G P 1 C 1 0 1 M N N 6 3 0 8



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



UGP Series

◆ 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
10 (1A)	470	8×7	23	3100	0.12	940	UGP1A471MNN0807U
	470	8×8	20	3400	0.12	940	UGP1A471MNN0808U
	470	10×7	19	3800	0.12	940	UGP1A471MNN1007U
	680	8×11	20	3900	0.12	1360	UGP1A681MNN0811U
	1000	10×12	19	6100	0.12	2000	UGP1A102MNN1012U
	1500	10×12	19	4500	0.12	3000	UGP1A152MNN1012U
16 (1C)	100	6.3×8	24	2490	0.12	320	UGP1C101MNN6308
	180	8×8	19	3400	0.12	576	UGP1C181MNN0808U
	270	6.3×11	20	3100	0.12	864	UGP1C271MNN6311
	330	10×12	19	4500	0.12	1056	UGP1C331MNN1012U
	470	10×12	19	4500	0.12	1504	UGP1C471MNN1012U
20 (1D)	470	8×11	14	4900	0.12	1880	UGP1D471MNN0811U
25 (1E)	47	8×7	45	1890	0.12	294	UGP1E470MNN0807U
	47	8×11	30	2500	0.12	568	UGP1E470MNN0811U
	68	8×11	24	3320	0.12	425	UGP1E680MNN0811U
	100	10×12	20	4320	0.12	625	UGP1E101MNN1012U