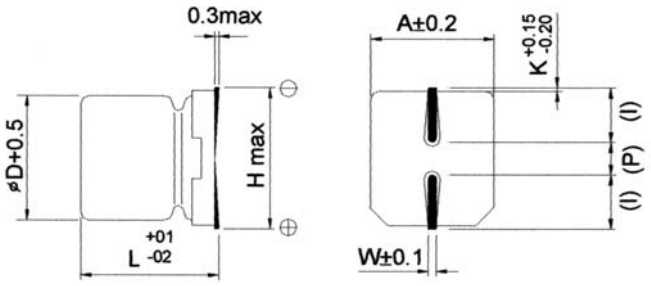
GDF 105°C Low impedance series

- For surface mounted and high frequency application.
- Life guaranteed 3,000 hours/105°C.

• Specifications

Item	Performance Characteristics						
Operating Temperature range	-40 + 105°c						
Rated Voltage	6.3V ~ 50V						
Capacitance Range	10 ~ 1,000 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)	6.3	10	16	25	35	50
	Tan δ	0.28	0.24	0.22	0.16	0.13	0.12
	For capacitance of more than 1,000 μF, add 0.02 for every increase of 1,000 μF.						
Temperature Characteristics (120 Hz)	Impedance Ratio / Stability at Low Temperature						
	Rated voltage (V)	6.3	10	16	25	35	50
	Z (-25°C) / Z (20°C)	4	3	2	2	2	2
	Z (-40°C) / Z (20°C)	10	7	5	3	3	3
Load Life	After specify 3,000 hours application of WV at 105°C, the 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 105°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
4	5.8	4.3	5.5	1.8	0.65	1.0	0.35
5	5.8	5.3	6.5	2.2	0.65	1.5	0.35
6.3	5.8	6.6	7.8	2.6	0.65	2.1	0.35
6.3	7.7	6.6	7.8	2.6	0.65	2.1	0.35
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

ALUMINUM ELECTROLYTIC CAPACITOR

GEMCON

• Standard Products Table

Dϕx L (mm)

WV(SV) / Cap (μF)	6.3 (8)			10 (13)			16 (20)		
	D x L	Imp.	R.C.	D x L	Imp.	R.C.	D x L	Imp.	R.C.
22							5 x 5.8	1.30	95
33				5 x 5.8	1.30	95	6.3 x 5.8	0.70	140
47	5x5.8	1.30	95	6.3 x 5.8	0.70	140	6.3 x 5.8	0.70	140
100	6.3x5.8	0.70	140	6.3 x 5.8	0.70	140	6.3 x 5.8	0.70	140
							6.3 x 7.7	0.70	230
150	6.3x5.8	0.70	140	6.3 x 5.8	0.70	140	6.3 x 7.7	0.70	230
220	6.3x5.8	0.70	230	6.3 x 7.7	0.70	230	6.3 x 7.7	0.70	230
				8 x 10.2	0.70	600	8 x 10.2	0.16	600
330	6.3x7.7	0.70	230	8 x 10.2	0.16	600	8 x 10.2	0.16	600
	8x10.2	0.16	600						
470	8x10.2	0.16	600	8 x 10.2	0.16	600	8 x 10.2	0.16	600
							10x10.2	0.08	850
1000	10x10.2	0.08	850						

WV(SV) / Cap (μF)	25 (32)			35 (44)			50 (63)		
	D x L	Imp.	R.C.	D x L	Imp.	R.C.	D x L	Imp.	R.C.
10				5 x 5.8	1.30	95	6.3 x 5.8	2.00	70
22				5 x 5.8	0.70	140	6.3 x 5.8	2.00	70
33	6.3 x 5.8	0.70	140	6.3 x 7.7	0.70	140	6.3 x 7.7	1.60	100
				8 x 10.2	0.70	600			
47	6.3 x 5.8	0.70	140	6.3 x 7.7	0.70	230	6.3 x 7.7	1.60	100
	6.3 x 7.7	0.70	230				8 x 10.2	0.34	350
100	6.3 x 7.7	0.70	230	6.3 x 7.7	0.70	230	8 x 10.2	0.34	350
	8 x 10.2	0.16	600	8 x 10.2	0.16	600	10x10.2	0.18	670
150	8 x 10.2	0.16	600	8 x 10.2	0.16	600	10x10.2	0.18	670
220	8 x 10.2	0.16	600	8 x 10.2	0.16	600	10x10.2	0.18	670
				10x10.2	0.08	850			
330	8 x 10.2	0.16	600	10x10.2	0.08	850			
	10x10.2	0.08	850						
470	10x10.2	0.08	850						

Impedance: (Ω) max. at 20°C 100KHz Ripple current (mA) at 105°C 100KHz