

Capacitors for Power Electronics (PEC) - Cylindrical



FEATURES

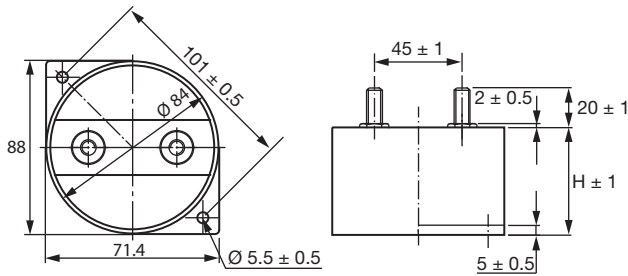
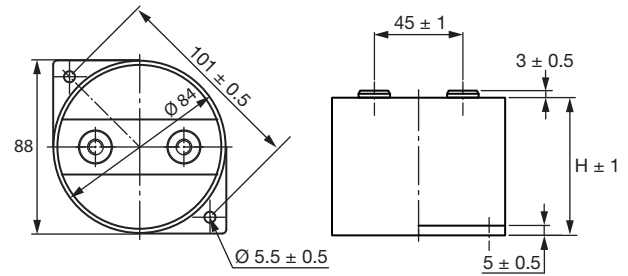
- Very low stray inductance < 40 nH
- Extremely low losses also at high frequencies
- Low ESR: < 4 mΩ
- Highest RMS current rating: up to 80 A
- High impulse discharge current capability
- Resistance to heavy duty shock vibration
- High reliability and life expectancy
- Integrated flanges enable easy mounting
- Casing material: UL 94 V-0

APPLICATION

- Damping GTO thyristors
- Protection of GTO capacitors
- Low inductance buffer circuits
- High current DC filtering
- Medium frequency tuning
- Pulsed laser

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Rated DC voltage min.	700 V
Rated DC voltage max.	2150 V
Capacitance min.	15 μF
Capacitance max.	230 μF
Technology	Metalized polypropylene
Dissipation factor (tan δ ₀)	< 2 x 10 ⁻⁴ /2 kHz
Capacitance tolerance	± 5 %
Operating temperature (hotspot)	θ _{min.} - 40 °C θ _{max.} - 80 °C
Inductance	< 30 nH
Lifetime expectancy	100 000 h at U _{NDC} and < 60 °C hotspot
Reliability	300 FIT
Test voltage	Terminal/terminal = 1.5 x U _{NDC} , 10 s; Terminal/case = 2 x U _{NDC} + 1000 V _{AC} , 60 s
Casing material	Polyester, UL 94 V-0
Filling	Resin polyurethane, UL 94 V-0
Standards	IEC 61071-1, IEC 61881, and EN 61071-1

DIMENSIONS in millimeters

 Drawing 1
GLI...-...B

 Drawing 2
GLI...-...I

TYPE DESCRIPTION												
TYPE GLI...-... B/I	C _N [μF]	VOLTAGE V _{DC}	R _S [mΩ]	R _{TH} [K/W]	I _{MAX.} [A]	I _P [kA]	İ [kA]	HEIGHT [mm]	D [mm]	WEIGHT [kg]	PACKAGING UNIT	DRAWING NO.
GLI 700, U_{NDC} = 700 V, U_N = 495 V												
700-35	35	700	0.4	6.4	80.0	0.98	2.94	38	84	0.2	4	1 and 2
700-160	160	700	0.6	6.0	60.0	1.28	3.84	56	84	0.3	4	1 and 2
700-230	230	700	0.8	5.6	50.0	1.33	4.01	68	84	0.4	4	1 and 2
GLI 900, U_{NDC} = 900 V, U_N = 635 V												
900-25	25	900	0.4	6.5	80.0	0.82	2.46	38	84	0.2	4	1 and 2
900-100	100	900	0.7	6.1	55.0	1.00	3.00	56	84	0.3	4	1 and 2
900-150	150	900	0.9	5.7	50.0	1.09	3.27	68	84	0.4	4	1 and 2
GLI 1100, U_{NDC} = 1100 V, U_N = 775 V												
1100-15	15	1100	0.5	6.7	60.0	0.63	1.89	38	84	0.2	4	1 and 2
1100-75	75	1100	0.8	6.2	55.0	0.90	2.70	56	84	0.3	4	1 and 2
1100-100	100	1100	1.0	5.8	50.0	0.87	2.61	68	84	0.6	4	1 and 2
GLI 1250, U_{NDC} = 1250 V, U_N = 1250 V												
1250-50	50	1250	1.0	6.3	50.0	0.70	2.10	56	84	0.3	4	1 and 2
1250-75	75	1250	1.2	5.9	47.0	0.76	2.28	68	84	0.4	4	1 and 2
GLI 1450, U_{NDC} = 1450 V, U_N = 1025 V												
1450-40	40	1450	1.0	6.4	48.0	0.64	1.92	56	84	0.3	4	1 and 2
1450-60	60	1450	1.2	5.9	45.0	0.70	2.10	68	84	0.4	4	1 and 2
GLI 1800, U_{NDC} = 1800 V, U_N = 1270 V												
1800-25	25	1800	1.2	6.5	43.0	0.50	1.50	56	84	0.3	4	1 and 2
1800-35	35	1800	1.6	6.1	38.0	0.50	1.52	68	84	0.4	4	1 and 2
GLI 2150, U_{NDC} = 2150 V, U_N = 1520 V												
2150-18	18	2150	1.4	6.6	40.0	0.43	1.29	56	84	0.3	4	1 and 2
2150-25	25	2150	1.8	6.1	35.0	0.43	1.30	68	84	0.4	4	1 and 2

Note

- Other voltage, current and capacitance values are available on request



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