

Capacitors for Power Electronics (PEC) - Cylindrical



FEATURES

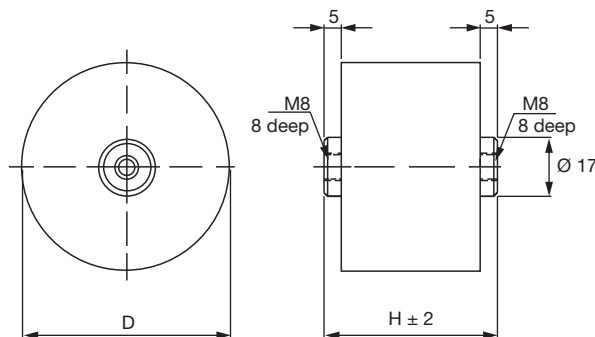
- Very low stray inductance: < 10 nH
- Extremely low losses at high frequencies 4×10^{-4} at 2 kHz
- Low ESR: < 4 m Ω
- Highest RMS current rating: up to 100 A
- High impulse discharge current capability
- Resistance to heavy duty shock vibration
- High reliability and life expectancy
- Casing material: UL 94 V-0

APPLICATIONS

- Voltage converters
- Frequency converters
- RFI filters
- Traction drives
- Industrial drives
- UPS
- Medical equipment

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Rated DC voltage min.	700 V
Rated DC voltage max.	2150 V
Capacitance min.	7.5 μ F
Capacitance max.	230 μ F
Technology	Metalized polypropylene film
Dissipation factor (tan δ_0)	2×10^{-4} at 2 kHz
Capacitance tolerance	$\pm 5\%$
Operating temperature (hotspot)	$\theta_{min.} - 40\text{ }^\circ\text{C}$ $\theta_{max.} - 80\text{ }^\circ\text{C}$
Inductance	< 30 nH
Lifetime expectancy	100 000 h at U_{NDC} and $60\text{ }^\circ\text{C}$ hotspot
Reliability	300 FIT
Test voltage	Terminal/terminal = $1.5 \times U_{NDC}$, 10 s; Terminal/case = $2 \times U_{NDC} + 1000 V_{AC}$, 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.....A



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GLI.....A

Vishay ESTA

TYPE DESCRIPTION												
TYPE GLI...-... A	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	0.5	8.0	60.0	0.98	2.94	44	87	0.4	12	1
700-230	230	700	0.8	6.4	50.0	1.33	4.01	74	87	0.5	12	1
GLI 900, U_{NDC} = 900 V, U_N = 635 V												
900-25	25	900	0.3	7.7	80.0	0.82	2.46	44	87	0.3	12	1
900-100	100	900	0.7	7.1	50.0	1.00	3.00	64	87	0.4	12	1
900-150	150	900	0.9	6.3	52.0	1.09	3.27	74	87	0.4	12	1
GLI 1100, U_{NDC} = 1100 V, U_N = 775 V												
1100-15	15	1100	0.4	7.7	75.0	0.63	1.89	44	87	0.3	12	1
1100-75	75	1100	0.7	7.3	55.0	0.90	2.70	64	87	0.4	12	1
1100-100	100	1100	1.0	6.5	45.0	0.87	2.62	74	87	0.4	12	1
GLI 1250, U_{NDC} = 1250 V, U_N = 1250 V												
1250-50	50	1250	0.9	6.9	50.0	0.70	2.10	64	87	0.4	12	1
1250-75	75	1250	1.1	6.5	45.0	0.76	2.28	74	87	0.5	12	1
GLI 1450, U_{NDC} = 1450 V, U_N = 1025 V												
1450-11	11	1450	0.7	6.5	50.0	0.33	1.10	74	87	0.5	12	1
1450-60	60	1450	1.2	6.3	45.0	0.70	2.10	74	87	0.3	12	1
GLI 1800, U_{NDC} = 1800 V, U_N = 1270 V												
1800-25	25	1800	1.2	7.1	42.0	0.50	1.50	64	87	0.4	12	1
1800-35	35	1800	1.7	6.4	38.0	0.50	1.52	74	87	0.4	12	1
GLI 2150, U_{NDC} = 2150 V, U_N = 1520 V												
2150-7,5	75	2150	3.0	11.8	20.0	0.18	0.54	64	87	0.4	12	1
2150-25	25	2150	2.1	6.0	32.0	0.43	1.30	74	87	0.4	12	1

Note

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



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