Vishay ESTA



Capacitors for Power Electronics (PEC) - Cylindrical



FEATURES

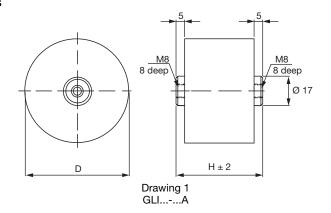
- Very low stray inductance: < 10 nH
- Extremely low losses at high frequencies < 4 x 10⁻⁴ at 2 kHz
- Low ESR: $< 4 \text{ m}\Omega$
- Highest RMS current rating: up to 100 A
- High impulse discharge current capability
- Resistance to heavy duty shock vibration
- High reliability and life expectancy
- 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 μF						
Capacitance max.	230 μF						
Technology	Metalized polypropylene film						
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



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TYPE DESCRIPTION													
TYPE GLI A	C _N [μF]	VOLTAGE V _{DC}	R_S [m Ω]	R _{th} [K/W]	I _{MAX.} [A]	l _P [kA]	Î [kA]	HEIGHT [mm]	D [mm]	WEIGHT [kg]	PACKAGING UNIT	DRAWING NO.	
GLI 700, U _{NI}	DC = 700	0 V, U _N = 495	V	l				1		1			
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 _{NI}	DC = 900	0 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 = 1	100 V, U _N = 7	75 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 _I	NDC = 12	250 V, U _N = 1	250 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 = 14	450 V, U _N = 10	025 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} = 18	800 V, U _N = 1	270 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 = 2	150 V, U _N = 1	520 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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