

Capacitors for Power Electronics



KEY BENEFITS

- Very low stray inductance: < 10 nH
- Extremely low losses at high frequencies: < 4 x 10⁻⁴ at 2 kHz
- Low ESR: < 4 mΩ
- 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
- UPS
- Frequency converters
- RFI filters
- Traction drives
- Industrial drives
- Medical equipment

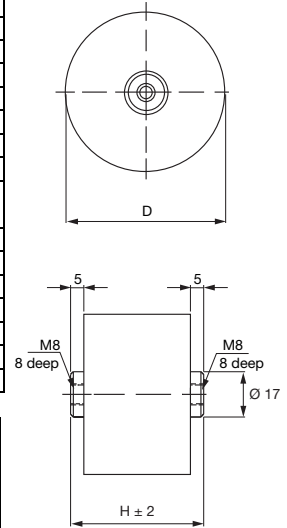
RESOURCES

- Datasheet: GLI Axial - <http://www.vishay.com/doc?13048>
- For technical questions contact esta@vishay.com



Capacitors for Power Electronics

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 ($\tan \delta_0$)	$< 2 \times 10^{-4}/2$ kHz
Capacitance tolerance	$\pm 5 \%$
Operating temperature (hotspot)	$\theta_{min.} - 40$ °C $\theta_{max.} - 80$ °C
Inductance	< 30 nH
Lifetime expectancy	100 000 h at U_{NDC} and < 60 °C hotspot
Reliability	300 FIT
Test voltage	Terminal/terminal = $1.5 \times U_{NDC}$, 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 mm

 Drawing 1
GLI...-...A

TYPE DESCRIPTION												
TYPE	C_N	VOLTAGE	R_S	R_{th}	$I_{MAX.}$	I_p	\hat{i}	HEIGHT	D	WEIGHT	PACKAGING	DRAWING
GLI...-... A	[μ F]	V_{DC}	[m Ω]	[K/W]	[A]	[kA]	[kA]	[mm]	[mm]	[kg]	UNIT	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	7,5	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

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Note

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