Power Electronic Capacitors (PEC)



FEATURES

- Very low inductance
- Extremely low losses at high frequencies
- Low serial resistance
- High current ratings
- High impulse discharge current capability
- Resistance to heavy duty shock vibration
- High reliability and lifetime expectation

APPLICATIONS

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

ADDITIONAL RESOURCES

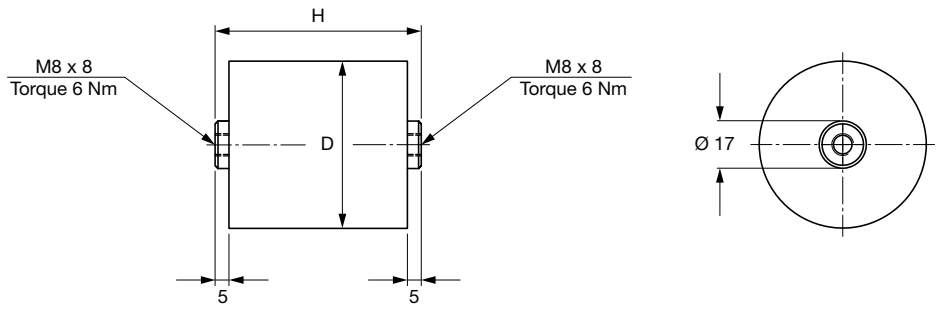
3D Models

QUICK REFERENCE DATA	
DESCRIPTION	**VALUE**
Rated DC voltage min.	700 V_{DC}
Rated DC voltage max.	2150 V_{DC}
Capacitance min.	11 µF
Capacitance max.	230 µF
Capacitance tolerance	± 5 % or ± 10 %
Technology	Metallized polypropylene film, self-healing
Dielectric dissipation factor	< 2 x 10^{-4}
Operating temperature min.	-40 °C
Operating temperature max.	+85 °C (hotspot)
Inductance	< 30 nH
Lifetime expectancy	> 100 000 h at U_{NDC} and < 60 °C hotspot
Reliability	< 300 FIT
Test voltage	U_{tt} = 1.5 x U_{NDC}/10 s; U_{tc} = 2 x U_{NDC} + 1000 V_{AC}/10 s
Casing	Polyester (UL 94 V-0)
Filling	Dry resin (UL 94 V-0)
Standard	IEC 61071, IEC 61881-1

For technical questions, contact: esta@vishay.com
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TYPE DESCRIPTION											
TYPE GLI...-... A	C_N (µF)	U_{NDC} (V_{DC})	R_S (mΩ)	R_{th} (K/W)	$I_{max.}$ (A)	Î (kA)	$Î_S$ (kA)	H (mm)	DIA. (mm)	MOQ / PU (pcs)	DRAWING NO.
GLI 700,U_{NDC} = 700 V_{DC}											
700-35	35	700	0.5	8.0	60	1.0	3.0	44	87	12	1
700-230	230	700	0.8	6.4	50	1.3	4.0	74	87	12	1
GLI 900,U_{NDC} = 900 V_{DC}											
900-25	25	900	0.3	7.7	80	0.8	2.4	44	87	12	1
900-100	100	900	0.7	7.1	50	1.0	3.0	64	87	12	1
900-150	150	900	0.9	6.3	52	1.1	3.3	74	87	12	1
GLI 1100, U_{NDC} = 1100 V_{DC}											
1100-15	15	1100	0.4	7.7	75	0.6	1.9	44	87	12	1
1100-75	75	1100	0.7	7.3	55	0.9	2.7	64	87	12	1
1100-100	100	1100	1.0	6.5	45	0.9	2.6	74	87	12	1
GLI 1250, U_{NDC} = 1250 V_{DC}											
1250-50	50	1250	0.9	6.9	50	0.7	2.1	64	87	12	1
1250-75	75	1250	1.1	6.5	45	0.7	2.3	74	87	12	1
GLI 1450,U_{NDC} = 1450 V_{DC}											
1450-11	11	1450	0.7	6.5	50	0.3	1.1	74	87	12	1
1450-60	60	1450	1.2	6.3	45	0.7	2.1	74	87	12	1
GLI 1800, U_{NDC} = 1800 V_{DC}											
1800-25	25	1800	1.2	7.1	42	0.5	1.5	64	87	12	1
1800-35	35	1800	1.7	6.4	38	0.5	1.5	74	87	12	1
GLI 2150, U_{NDC} = 2150 V_{DC}											
2150-18	18	2150	3.0	11.8	20	0.2	0.5	64	87	12	1
2150-25	25	2150	2.1	6.0	32	0.4	1.3	74	87	12	1

DIMENSIONS in millimeters



Drawing 1

Contact Us

Other voltage, current, and capacitance values are available on request without additional cost and lead time for the individual design.

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