

Type TGC

DC Filter Capacitor

The TGC Series Film Capacitor is engineered for DC filtering, DC link applications, and circuits in converters or inverters. With high reliability, excellent long-term stability, and low losses, this capacitor is ideal for high-ripple current applications. Its self-healing property enhances durability, while the ability to replace electrolytic capacitors makes it a superior alternative for demanding power applications. The UL94-V0 rated plastic case and epoxy resin sealing provide additional safety and protection.

Features:

- High reliability and excellent long-term stability
- Low losses and excellent for high ripple current application
- Self-healing property
- Can replace the electrolytic capacitor
- Plastic case (UL94-V0), Epoxy resin sealing

Applications:

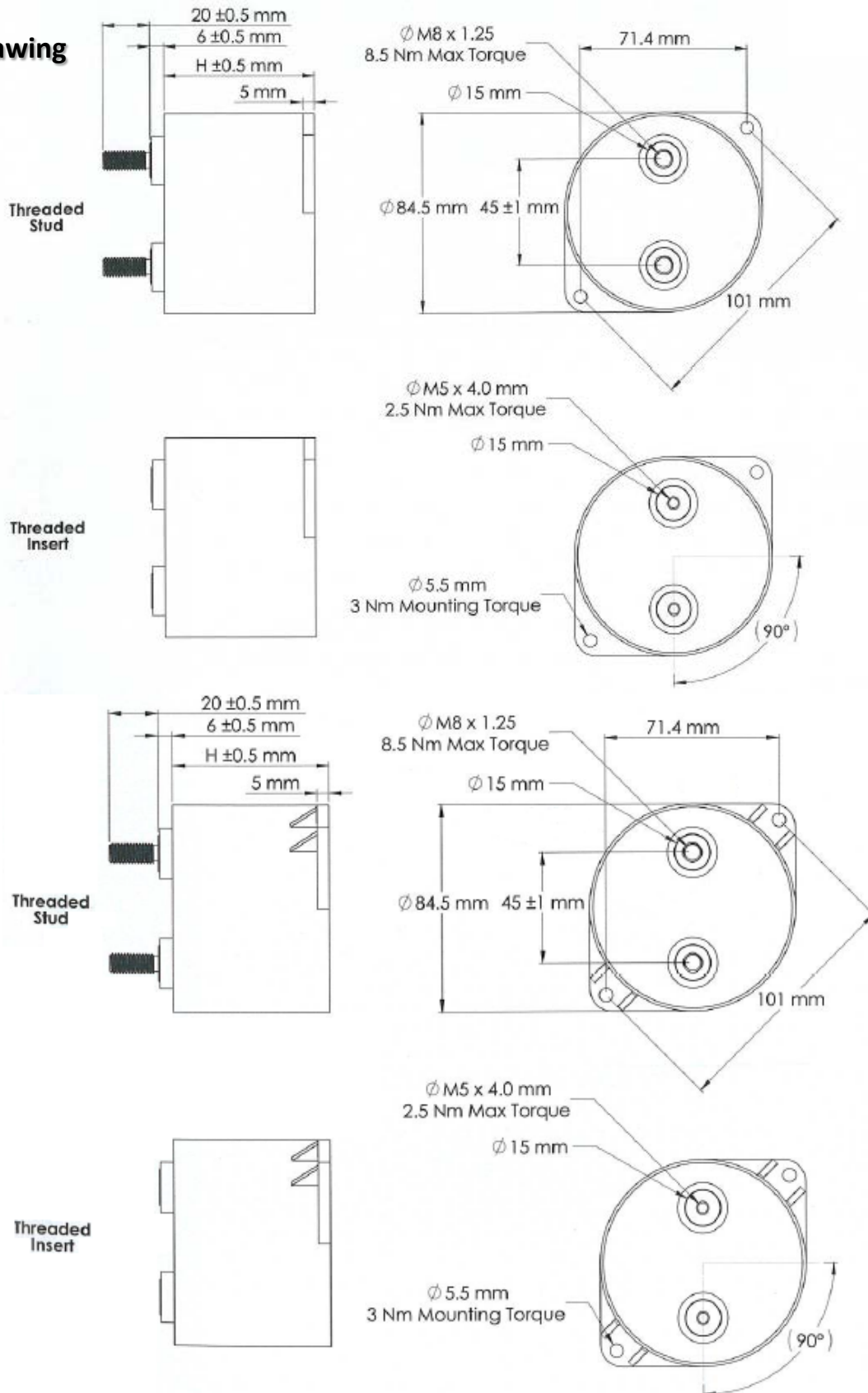
- DC Filtering / DC Link
- Used in the circuit of converter or inverter

General Specifications

Parameter	Value
Rated Voltage	800VDC, 900VDC, 1100VDC, 1300VDC, 1400VDC
Capacitance	56 μ F to 220 μ F (other rating upon request)
Tolerance	\pm 10%
Temperature Range (operational)	-40°C to +85°C
Dielectric Strength	150% of rated DC voltage for 10 sec
Construction	Non-inductive metallized polypropylene
Case	Flame retardant preformed case (UL94-V0)
Fill Material	Dry Resin (UL94-V0)
Terminal	Tin Plated Brass

Rated Voltage (VDC)	CAP (μ F)	ESR 10kHz (m Ω)	ESL (nH)	Max Irms 55°C (A)	ØD	H
800	150	1.0	32.0	58.4	84.5	50.0
	220	1.1	40.0	57.6	84.5	65.0
900	150	1.0	32.0	58.6	84.5	50.0
	220	1.1	40.0	57.8	84.5	65.0
1100	100	1.3	32.0	54.4	84.5	50.0
	140	1.5	40.0	52.0	84.5	65.0
	150	1.5	45.0	53.0	84.5	76.0
	190	1.7	45.0	54.0	84.5	76.0
1300	70	1.4	32.0	52.0	84.5	50.0
	100	1.8	40.0	51.2	84.5	65.0
	130	1.9	45.0	50.2	84.5	76.0
1400	56	1.5	32.0	48.0	84.5	50.0
	86	1.8	40.0	46.4	84.5	65.0
	95	1.9	45.0	46.0	84.5	76.0

Outline Drawing



Order Code Information:

Type	Capacitance	Tolerance	Voltage	Terminal
TGC	7	10 = ±10%	500	F5 = Female M5
	↕		↕	M8 = Male M8
	100		1200	

Examples:	Order Code
Type TGC, 150uF ±10%, 800 VDC, Female M5 Terminals	TGC 150-10-800 F5
Type TGC, 130uF ±10%, 1300 VDC, Male M8 Terminals	TGC 130-10-1300 M8

TGC