

HKFC Industrial Pty Ltd

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Pulse Grade Capacitors – STR series STR-01T-2.8, STR-01T-6.35, STR-02T, STR-02TM, STR-03L, STR-03LM, STR-03LT, STR-03LTM, STP-D
(the above series configurations please refer the following drawing)

Applications :

- Electric Fence Energizer, Welding Energizer Equipment, High intensity discharge lighting, High Energy and Current Discharge applications
- Capacitor can be direct short circuit at rated voltage without any protective component

Constructions :

Supporting different Capacitor Configuration, electrical connections and mounting options so as to increase your design flexibility

Electrical Connections :

Tin plated copper lead wire
Flexible electrical lead wire

Support Varies type Terminals : 250 type 6.35mm, 187 type 4.75mm, T280 type 4mm and other large size Terminals – which can deliver larger discharge current Ipp when compare with lead wires

Properties :

Low D.F. & Dielectric loss, High Discharge Current & Voltage Capabilities; High Insulation Resistance; AC and DC voltage; Flame Retardant Construction; Easy Installation

Mountings : Plastic Cylindrical Case : with stud – M8 / without stud

Electrical Characteristics :

Rated Voltage : 650Vdc - 1,600Vdc (can customized design)

Capacitance range : 4uF - 200uF

Capacitance Tolerance : +/-5%; +/-10%

Dissipation Factor (DF) : <0.1% 1KHz) at 23C

Testing Voltage : STR: Rated Voltage x 1.2Un 10sec +23C (can be customized design)

Insulation Resistance : >=5000Mohm at 100Vdc 60s +23C

Withstand Voltage between T-C : 3000Vac 50Hz 60s

Operate Temperature : -25C to +70C

Plastic case and Epoxy : Flame retardation UL94-V0

Pulse Grade Capacitor configurations:

STR-01T : 2 terminals

STR-02T : 2 double terminals

STR-02TM : 2 double terminals + M8 screw bolt for mounting

STR-03L : 2 lead wires

STR-03LT : 2 lead wire with quick terminals

STR-03LTM : 2 lead wire with quick terminals + M8 screw bolt for mounting

STP-ZP : Epoxy Resin dipping with two tin plated copper wires

Options :

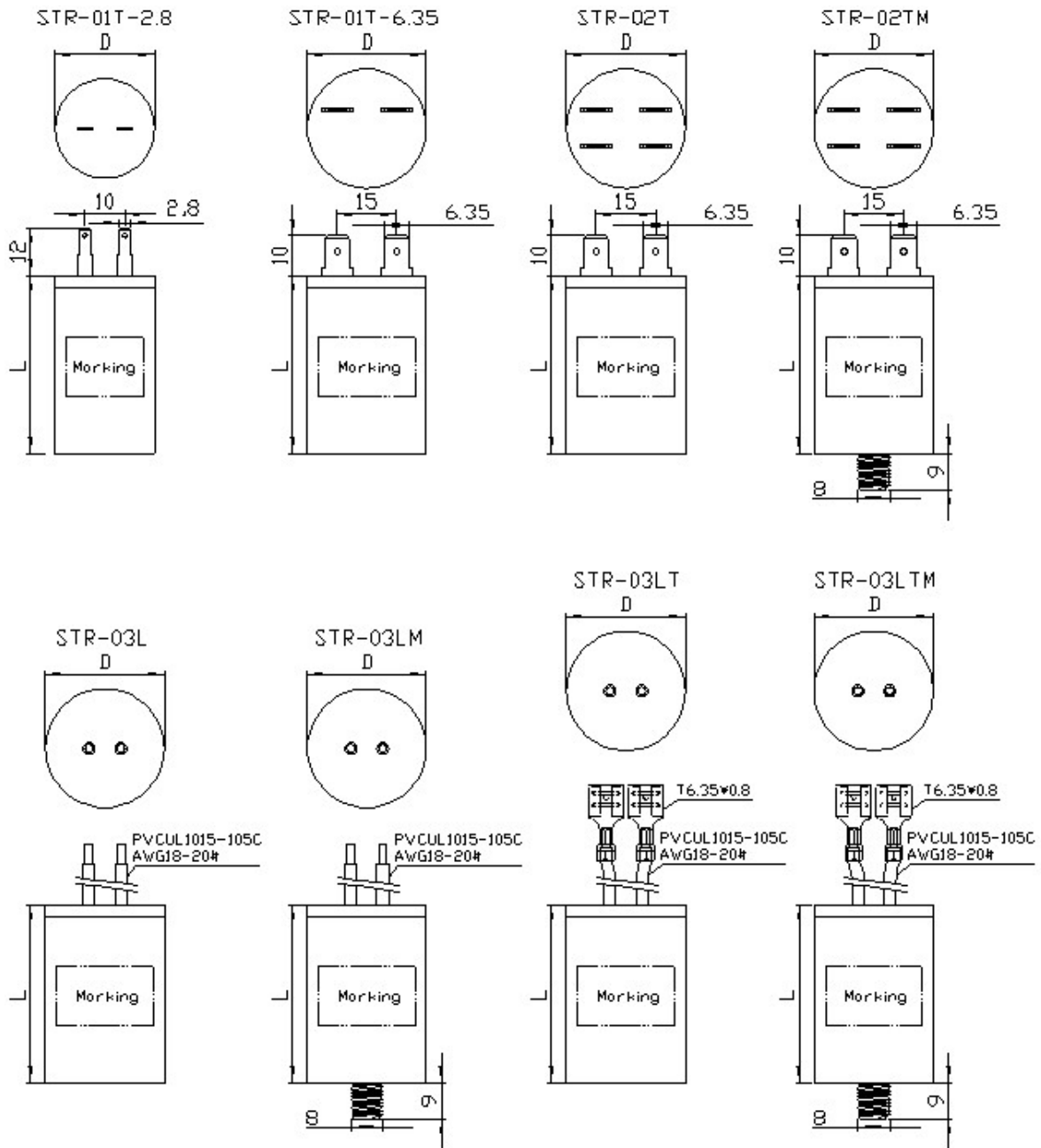
Thermocouple can be built-in :

- capacitor internal temperature can be measured
- output temperature signal can be used as one of reference signals in the circuit and trigger other function



Cylindrical Capacitor Configurations - Electrical Connection and Mounting :

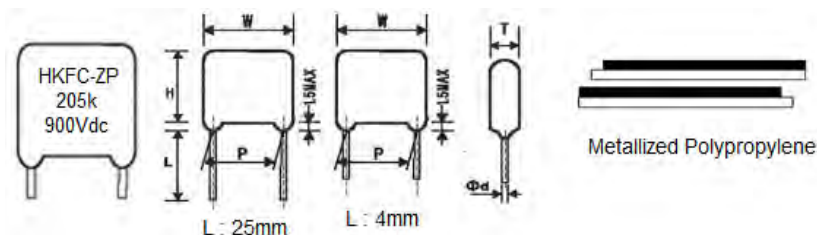
The above packaging configuration can be applied for all cylindrical type capacitors.



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Pulse Grade Capacitor – Dipped type : HKFC-ZP series



FEATURES

- Metallized Polypropylene film, non-inductive wound construction
- Wide range of rated voltage and rated capacitance
- Low loss
- Flame retardent epoxy powder coating
- For high pulse current/energy discharge applications

TYPE APPLICATION:

- for pulse current and energy discharge circuits
- AC/DC pulse applications
- Coupling, AC and DC, filtering, bypass, etc., and other power electronics
- Optional: support 85/85 test requirement



Specifications

Reference Standard		GB/T 10190 (IEC 60384-16)				
Climatic Category		40/85/21				
Rated Temperature		85C				
Operating Temperature Range		-40~+85V				
Rated voltage	(vdc at+85C)	450V	650V	900V	1000V	
Rated voltage	(vac at+85C)	250V~	300V~	400V~	420V~	
Capacitance range		0.5μF~8.0μF				
Capacitance tolerance		±5% (J),±10% (K)				
Voltage Proof	(vdc at+25C)	1.6* R.V(DC) , 5s (between terminals)				
Voltage Proof	(vac at+25C)	1.6* R.V(AC) , 5s (between terminals)				
Dissipation factor		≤0.1% (1KHz at 20~25C)				
Insulation Resistance		≥30 000MΩ,CR≤0.33μF ≥10 000 s,CR > 0.33μF (at 100 VDC , 60s 20~25C)				
If the working voltage (U) is lower than the rated voltage (U _R), the capacitor can withstand a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.		UR(V)	dV/dt (V/us)			
			P=22.5	P=27.5	P=32.5	P=39.5
		450V/250V~	45	38	32	23
		650V/300V~	65	55	45	/
		900V/400V~	95	80	65	/
1000V/420V~	100	85	70	/		

Note: We can produce capacitors according to customer's requirements.