

# SPECIFICATION FOR APPROVAL

## Film Capacitor for DC-Link

Customer Code: \_\_\_\_\_

Series / Type: \_\_\_\_\_

20 $\mu$ F  $\pm$ 10% 800VDC

Ordering code: \_\_\_\_\_

Customer's P/N: \_\_\_\_\_

Date: \_\_\_\_\_

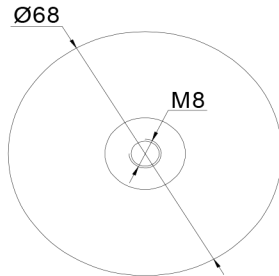
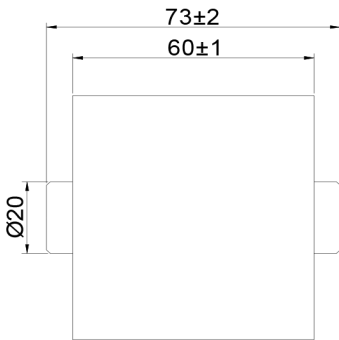
28-Feb-2019

			APPROVED BY
Prepared	Checked	Approved	
28-Feb-2019	28-Feb-2019	28-Feb-2019	

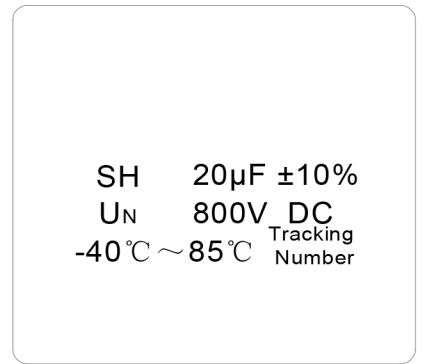
■ **Revision record**

NO.	Revision description	Recorder	Date
1	New		28-Feb-2019

■ **OUTLINE DRAWING\_(mm)**



**MARK**



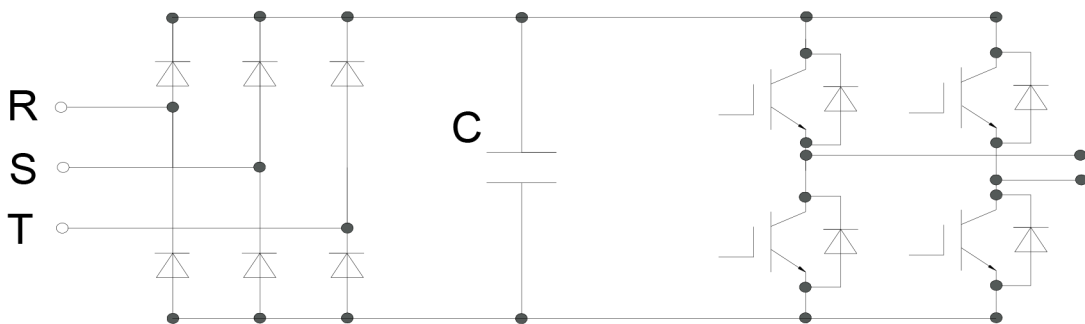
■ **REFERENCE STANDARD**

IEC61071,GB/T17702

■ **APPLICATIONS**

Widely used in different kinds of electronic equipment DC link part for DC support,energy storage and filter.

■ **Typical circuit**



## ■ FEATURES

- Metallized film, non-inductive structure
- Self-healing property
- High ripple current handling capabilities
- Low ESR, Low ESL
- Long lifetime

## ■ TEST CONDITIONS

Environment Temperature:  $T = +20\text{ °C} \pm 10\text{ °C}$

Environment Humidity:  $RH \leq 65\%$

## ■ QUICK REFERENCE DATA

Rated capacitance	$C_N$	20 $\mu$ F
Capacitance tolerance		$\pm 10\%$
Rated DC voltage	$U_{NDC}$	800VDC
Operating Temperature Range		-40 °C to +85 °C
Storage temperature range		-40 °C to + 85 °C
Tangent of loss angle	$tg\delta$	$\leq 0.0010$ (1kHz)
Test voltage between terminals	$U_{t-t}$	1.5 $U_N$ (10s)
Maximum ripple current	$I_{rms}$	40A
Maximum peak current	$I_{peak}$	800A
Voltage rise time	dv/dt	40V/ $\mu$ S
Equivalent series inductance	$L_s$	20nH
Insulation resistance (100VDC for 60s)	IR	IR $\geq$ 5000S
Temporarily Overvoltage (per day)	1.1 x $U_n$ , 30% on load duration.	
	1.15 x $U_n$ for 30min	
	1.2 x $U_n$ for 5min	
	1.3 x $U_n$ for 1min	
	1.5 x $U_n$ for 100ms each time, 1,000 times during the life of the capacitor.	
Lifetime expectancy	100,000h at $U_n$ and 70°C	
Failure rate	30FIT at $U_{NDC}$ , 40°C	