



**CAPACITOR
COMPETENCE**
since 1958

FILM CAPACITORS

FILM CAPACITORS · DC-LINK

CBB 138H DR SERIES

JIANGHAI EUROPE
Electronic Components GmbH



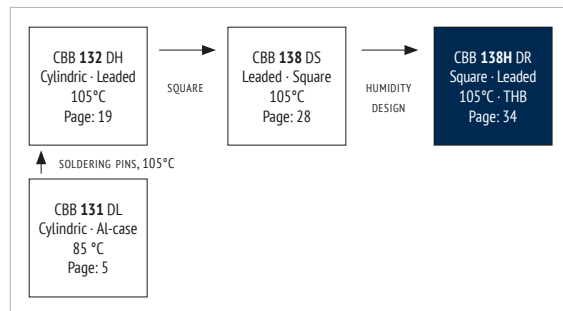
ENGINEERED SOLUTIONS

v2020.2

FEATURES

- DC-Link
- Design for DC Link Application
- Metal sprayed contacts for low ESR
- Self-healing
- THB Design (high humidity)

OVERVIEW



PRODUCT



APPLICATIONS

- Frequency inverter and intermediate circuits
- Industry high-end power supplies

CHARACTERISTICS

ITEM	CHARACTERISTICS
Climatic Category	40/105/56 (IEC 61071)
Operating Temperature	-40 ~ +105°C ($\theta_{hotspot} \leq 105^\circ\text{C}$) $\theta_{hotspot} = 85 \sim 105^\circ\text{C}$: See Voltage Derating Diagram
Storage Temperature	-40 ~ 105°C
Rated Voltage U_{DC}	450 ~ 1.700 V_{DC}
Capacitance Range	1 ~ 110 μF
Capacitance Tolerance	$\pm 10\%$ (K), $\pm 5\%$ (J)
Voltage between Terminals U_{TT}	$1,5 \cdot U_{DC}$ (20°C, 10s)
Voltage between Terminals & Case U_{TC}	$\geq 3.000 V_{AC}$ (20°C, 50 Hz, 10s)
Dielectric Dissipation Factor $\tan \delta$	$\leq 2 \cdot 10^{-4}$ (20 °C, 1 kHz)
Insulator Resistance $R \cdot ^\circ\text{C}$	$\geq 5.000 \text{ M}\Omega \cdot \mu\text{F}$ (20 °C, 100 V_{DC} , 1 min)
Max. Overvoltage	$1,1 \cdot U_{DC}$ (30 % of time under load) $1,15 \cdot U_{DC}$ (30 min. per day) $1,2 \cdot U_{DC}$ (5 min. per day) $1,3 \cdot U_{DC}$ (1 min. per day) $1,5 \cdot U_{DC}$ (max. 30 ms, 100ms per day)
Life Time Expectancy	$\geq 100.000\text{h}$, failure rate $\leq 50 \text{ FIT}$ (70°C)
Reference Standard	IEC 61071:2007
THB: High Temperature & Humidity Test	Temperature: $85^\circ\text{C} \pm 2^\circ\text{C}$ Humidity: $85\% \pm 2\%$ Voltage: U_R (50/60Hz) Duration: 1000h Capacity Change ($\Delta\text{C}/\text{C}$): $\leq 10\%$

ENVIRONMENTAL

The products are RoHS, WEEE and REACH compliant.

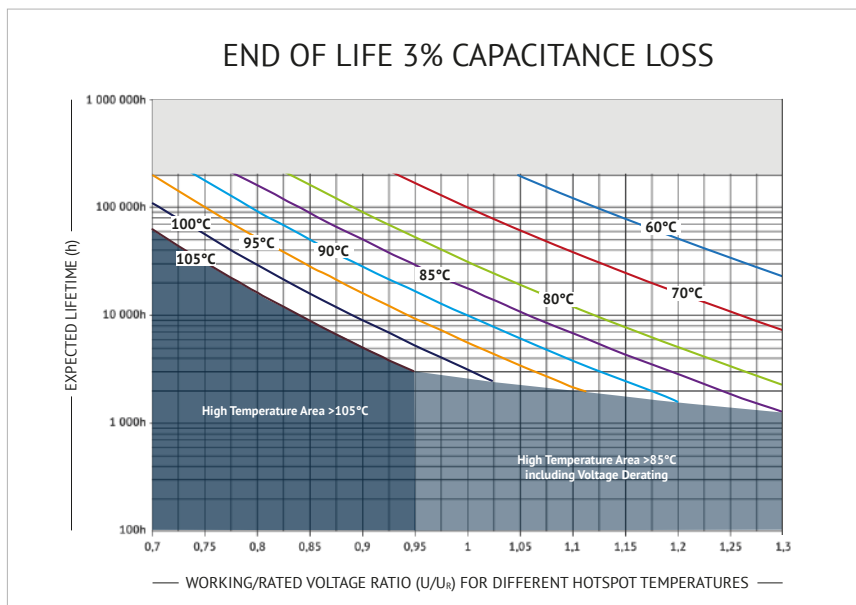
The detailed version please see separate "Environmental Certificates" document or www.jianghai-europe.com

APPROVALS

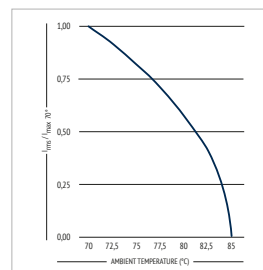
UL94-V0:

Plastic & Compound Mass

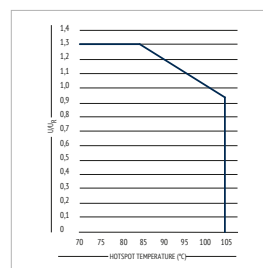
LIFETIME



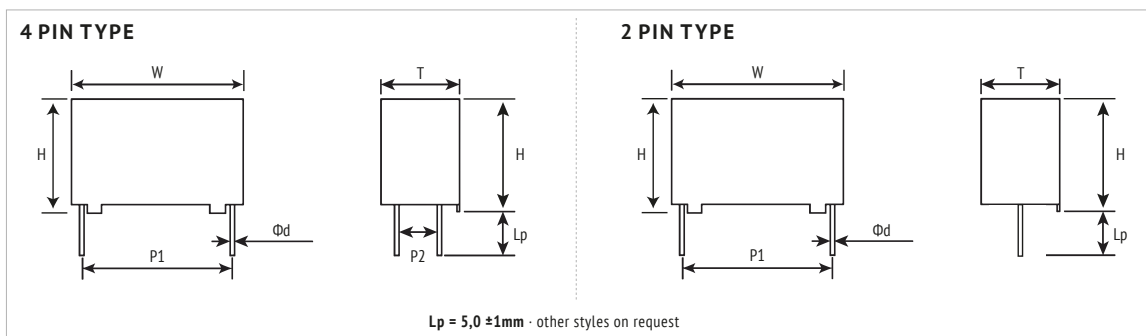
CURRENT DERATING



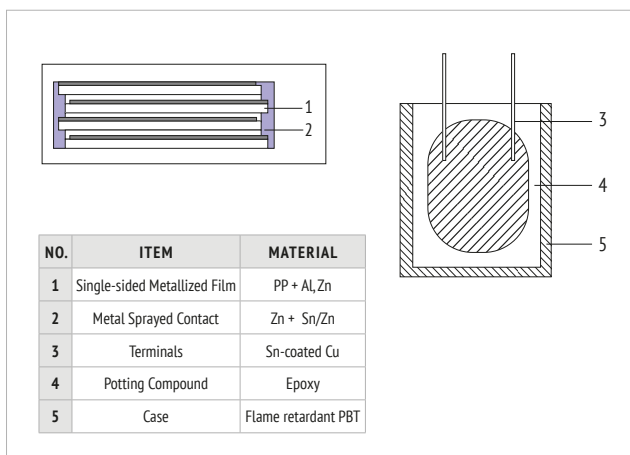
VOLTAGE DERATING



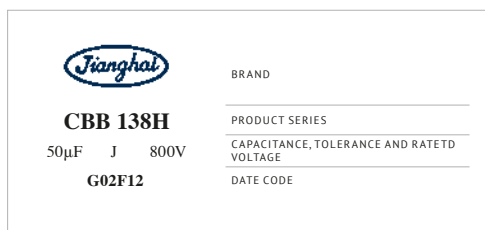
DIMENSIONS



INTERNAL CONSTRUCTION



MARKING



ORDER CODE

FC	S	3B	DR	105	K	A	FK	37	20	C	E 3
Capacitor type	Product shape	DC rated voltage code (V)	Series code	Capacitance Code (µF)	Capacitance tolerance	Pin Style (mm)	Dimension Code WxHxT (mm)	Pitch P ₁ (mm)	Pitch P ₂ (mm)	Leadwire Diameter Ød	For internal use
Film Cap. = FC	Square box = S	450 2W 500 2H 550 2Y 600 2S 700 2Q 800 2K 900 R2 1000 3A 1100 A3 1200 3B 1300 O3 1500 C3 1700 F3	CBB 138H = DR	0,68 684 0,82 824 1,0 105 1,2 125 2,0 205 5,0 505 10 106 20 206	+5% J ±10% K	4 Pin Lp = 8mm K 4 Pin Lp = 5mm A 4 Pin Lp = 4,5mm L 4 Pin Lp = 4mm S 4 Pin Lp = 3,5mm J 2 Pin long leads (~ 20mm) C 2 Pin Lp = 5mm B 2 Pin Lp = 4,5mm T 2 Pin Lp = 4,0mm M 2 Pin Lp = 3,5mm U 2 Pin Lp = 3,2mm V	32,0 x 20,0 x 11,0 I4 32,0 x 22,0 x 13,0 I7 32,0 x 24,5 x 15,0 IJ 32,0 x 28,0 x 14,0 IC 32,0 x 28,0 x 18,0 ID 32,0 x 33,0 x 18,0 IF 32,0 x 37,0 x 22,0 II 42,5 x 18,0 x 24,0 FL 42,5 x 33,5 x 22,0 FT 42,5 x 35,5 x 33,5 FC 42,5 x 37,0 x 28,0 F1 42,5 x 40,0 x 20,0 F2 42,5 x 44,0 x 24,0 F9 42,5 x 45,0 x 30,0 FF 42,5 x 50,0 x 35,0 FK 42,5 x 60,0 x 45,0 FW 57,5 x 55,0 x 45,0 HS 57,5 x 30,0 x 35,0 H5 57,5 x 43,5 x 29,5 HG 57,5 x 45,0 x 30,0 HH 57,5 x 45,0 x 35,0 HJ 57,5 x 50,0 x 35,0 HL 57,5 x 53,0 x 50,0 HA 57,5 x 55,0 x 40,0 HM 57,5 x 60,0 x 35,0 H6 57,5 x 60,0 x 45,0 H2	22,5 22 27,5 27 37,5 37 52,5 52	20,3 20 10,2 10 - 00	0,6 A 0,8 B 1,0 C 1,2 D 0,5 E	



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