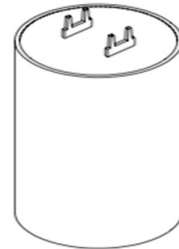


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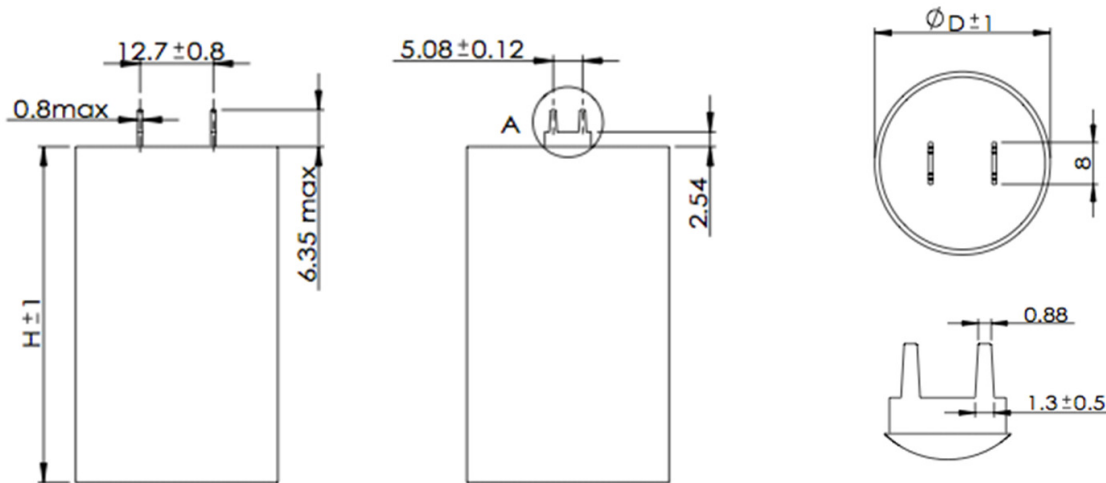
High Irms Current DC Filter, DC-Link, Decoupling, Snubber

## ❖ General Description

Standard Reference	IEC 61071
Dielectric Material	Self-Healing Metallized Polypropylene
Case Type	Plastic case, Resin filled, UL94V-0
Capacitance Range	Cn: 5 $\mu$ F ~ 200 $\mu$ F (1kHz, 20 $^{\circ}$ C)
Capacitance Tolerance	J ( $\pm$ 5%), K ( $\pm$ 10%)
Dielectric Dissipation Factor	tg $\delta$ : 0.0002 (1kHz, 20 $^{\circ}$ C)
Insulation Resistance	IR $\times$ Cn : $\geq$ 10000s (100Vdc, 60s, 20 $^{\circ}$ C)
Rated Voltage	Un : 300VDC ~ 2000VDC
Test voltage U <sub>TT</sub>	U <sub>TT</sub> : 1.5Un (10s, 20 $^{\circ}$ C) – Test voltage between both terminals -40 $^{\circ}$ C ~ +105 $^{\circ}$ C ( $\theta$ hs $\leq$ 105 $^{\circ}$ C)
Operating Temperature	50% linear voltage derating from $\theta$ hs 85 $^{\circ}$ C to 105 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C ~ +105 $^{\circ}$ C
Lifetime Expectancy	100,000 hours (1.0Un, $\theta$ hs $\leq$ 70 $^{\circ}$ C)
Remarks	RoHs Compliant on request. Add "R" to p/n. *Other capacitance, voltage and dimensions are available on request.



## ❖ Outline Drawing unit: mm



A partial view  
Example 3: 1

## ❖ Electrical Characteristics

Part Number	Cn	Un	U <sub>TT</sub>	ESL	ESR	Irms			dv/dt	I peak	Dimension	
	$\mu$ F	Vdc	Vdc	nH	m $\Omega$	25 $^{\circ}$ C	50 $^{\circ}$ C	75 $^{\circ}$ C	V/ $\mu$ s	Amps	$\Phi$ D	H
USM37-356K500A58	35	500	750	35	7	22	18	13	27	945	35	58
USM37-306K600A58	30	600	900	35	8	21	17	12	30	900	35	58
USM37-206K800A58	20	800	1200	35	9	19	16	10	35	700	35	58
USM37-146K1000A58	14	1000	1500	35	10	18	15	9	40	560	35	58
USM37-805K1200A58	8	1200	1800	35	13	17	12	8.5	55	440	35	58
USM37-605K1500A58	6	1500	2250	35	15	15	11	8	60	360	35	58

\*Other capacitance, voltage and dimensions are available on request.

$\Delta$ Version: 2016-1.0