

**Application:** DC/AC capacitor for general use in power electronics  
also for nonsinusoidal voltages and currents

**Order code:** PAM 210-047 uv4 (J)

**Standards:** acc. to IEC 61071:2007

### Characteristics

Rated capacitance	<b>C<sub>N</sub></b>	0.47 µF ±5%
Rated a.c. voltage	<b>U<sub>NAC</sub></b>	2100 V a.c.
Max. rms voltage (sinusoidal)	<b>U<sub>rms</sub></b>	1485 V
Non-recurrent surge voltage	<b>u<sub>s</sub></b>	3150 V
Rated energy	<b>W<sub>N</sub></b>	1 Ws
Maximum current	<b>I<sub>max</sub></b>	15 A
Maximum peak current	<b>i</b>	0.2 kA
Maximum surge current	<b>I<sub>s</sub></b>	0.7 kA
Series resistance	<b>R<sub>s</sub></b>	14 mΩ
dielectric dissipation factor	<b>tanδ<sub>o</sub></b>	2 x10 <sup>-4</sup>
Self discharge time const.	<b>C x R<sub>is</sub></b>	5000 s
Self-inductance	<b>Le</b>	15 nH

### Thermal conditions

Lowest operating temperature	<b>Θ<sub>min</sub></b>	-25 °C
Maximum operating temperature	<b>Θ<sub>max</sub></b>	85 °C
Storage temperature	<b>Θ<sub>storage</sub></b>	-40..+85 °C
Thermal resistance	<b>R<sub>th</sub></b>	8.1 K/W
Humidity class		G

### failure rate

reference service life		100 FIT*
at Θ <sub>hotspot</sub>		100000 h
		≤70 °C

\* See FIT-RATE diagram on pg.3

### Test data

Voltage test between terminals	<b>U<sub>TT</sub></b>	4520 V DC/10s
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### Dimensions

Rated diameter	<b>D<sub>1</sub></b>	35 (±1) mm
Length of the case	<b>L<sub>1</sub></b>	93 (±1) mm
Length of the terminal	<b>L<sub>2</sub>/L<sub>3</sub></b>	15 (±1) mm
total Length	<b>L<sub>G</sub></b>	97 (±1) mm
Terminal	<b>G</b>	M5x15 mm
	<b>d<sub>2</sub>/d<sub>3</sub></b>	M5
Diameter of terminals	<b>d<sub>4</sub></b>	8 mm
Clearance in air	<b>L</b>	120 mm
Creepage distance	<b>K</b>	120 mm

### Approx weight

0.12 kg

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	plastic case with resin moulded winding, UL94: V0
Protection	without internal fuse, to be used only in uncritical environment
Terminals	screw base, inside thread
Impregnant	no liquid impregnants, filled with solidified PUR resin,non PCB
Fire load	4.8MJ

### outline drawing

