PA Supercapacitors Cylindrical pack









Features

- 5.0 Volts
- Ultra-low ESR
- High capacitance
- Long cycle life
- Low leakage currents

Features

- Pulse power
- Endge or hold-up power

Description

Earth Folive Stor super rap autors are unique, ultrahigh to pacitance of vice, utilizing electrochemical double layer callaction for the programment of 4393. See PCN 1703 ap. ips for se conds. There is no



Ratings

Capacitance	0.22 F to 0.47 F
Maximum working voltage	5.0 V
Surge voltage	6.0 V
Capacitance tolerance	-20% to +80% (+20 °C)
Operating temperature range	- 25 °C to +70 °C

Specifications

Capacitance (F)	Vertical Part Number	Horizontal Part Number	Nominal ESR (Ω) (Equivalent Series Resistance) Measured @ 1 kHz	Nominal Dimensions (mm)	Typical Mass (grams/pic)
0.22	PA-5R0V224-R	PA-5R0H224-R	0.30	8.5 x 16.8 x 21.5	3.5
0.47	PA-5R0V474-R	PA-5R0H474-R	0.20	10.5 x 20.8 x 22.5	5. '

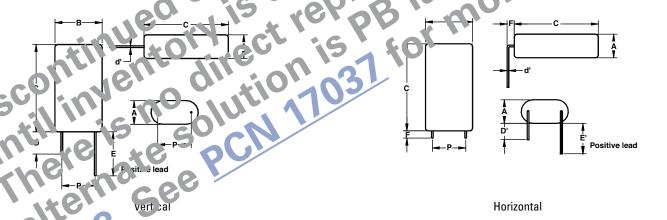
Performance

Parameter	Capacitance change (% of initial value)	FSR % of max. initial value)	
Life (1000 hours @ 70 °C @ 2.5 Vdc)	≤ 30%	≤ 300%	•
Storage - Low and High Temperature (1000 hours @ -25 °C and 85 °C)	≤ 30%	≤ 300%	

Dimensions (mm)

Vertical Part Number	Horizontal Part Number	A B	C 4	D L'	E E F	SP!
PA-5R0V224-R	PA-5R0H224-R	20 1	7.3 12.0 0.9	5 2 15	20 0	11.8
PA-5R0V474-R	PA-5R0H474-R	11.0	1. 23.0	30 .5	25 21 2.0	5.3
	Tolerances	Martit, un	±0	.02 w. nr. yuan	±0.5	 i

Note: Longer lead is positive.



Part numbering evetam

P	P .	_	5 R	0	v	47	4	-R
			Voltage (V) R = Decimal Configuration		Capacitance (µF)			
Family Code	Version				Configuration	Value	Multiplier	Standard product
P Family	A=Ultra-Low ESR		5R0 = 5.0 V		V = Vertical H = Horizontal	Example: 474 = 47 x 474 or 0.47 F		

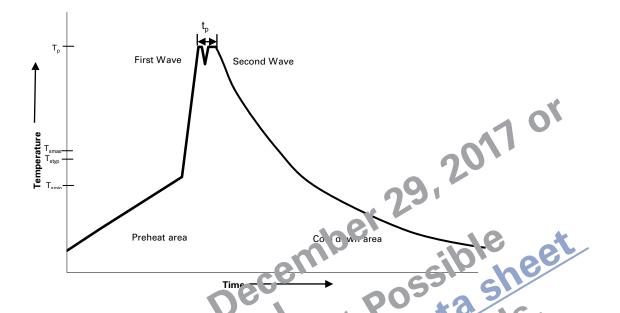
Packaging information

- Standard packaging: Bulk, 100 units per bag
- Larger bulk packages available on request

Part marking

- Manufacturer
- Capacitance (F)
- Max Operating Voltage (V)
- Family Code (or part number)
- Polarity

Wave solder profile



Profile Feature	Scanward SnPk Sc de.	Lead (Pb) 1 96 Solder
Preheat and soak • Temperature max. (T _{smax})	100 °C	100.00
• Time max.	FC st or ds	l seconds
preheat to max Temperature	1bu °C r ax	160 °C max.
Peak temperature (Tp)*	22°C - 1°6 °C	250 °C − 260 °C
Time at peak temperature (t ₁)	1 s conds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down if te	~ 2. s sin ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25 °C to 25 °C	4 minutes	4 minutes

1. at uni solder 350 °C, 4-7, econds. (by coldering iron), generally manual, hand soldering is not recommended.

Refle soldering

of use reflow's Usering using infrared or convection oven heating methods.

Cleaning / Jashing

Avoit c. Paring of pircuit wards, however if the circuit board must be cleaned use static or ultrasonic immersion in a standard circuit board crossing fluid or no more than 5 minutes and a maximum temperature of +60 °C. Afterwards thoroughly rinse and dry the circuit boards. In general in a. s percapacitors in the same manner you would an aluminum electrolytic capacitor.

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