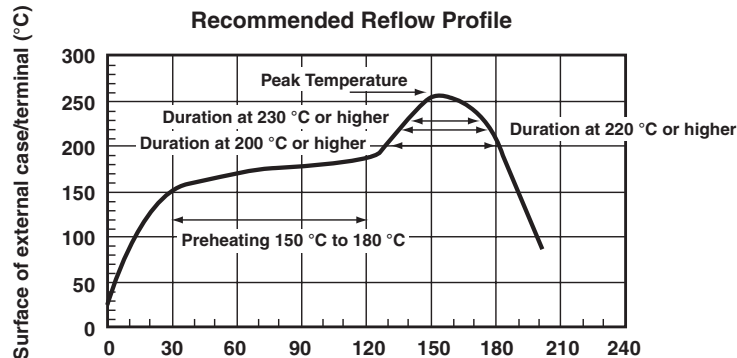


Type 94SVP Solid Aluminum Capacitors With Organic Semiconductor Electrolyte Surface Mount Chip

RECOMMENDED REFLOW PROFILE



Vishay OS-CON has different characteristics against soldering heat from conventional aluminum electrolytic capacitors or tantalum capacitors because of its unique materials and structure.

Please note the following points on soldering of Vishay OS-CON 94 SVP series to draw out the best performance.

ITEM	94 SVP SERIES	
Peak Temperature (MAX.)	250°C	260 °C
Preheat	150°C to 180°C 90 ± 30 sec.	
200°C over time (MAX.)	60 sec.	60 sec.
220°C over time (MAX.)	50 sec.	50 sec.
230°C over time (MAX.)	40 sec.	40 sec.
Reflow number	twice or less	Only 1 time

Note

All temperatures are measured on the topside of the Al-can and terminal surface.

Attention:

Reflow soldering may reduce the capacitance of products before or after soldering even if soldering conditions stipulated in Recommended Reflow Condition are met. Though the actual reflow conditions are subject to change depending on the kind of reflow soldering method, please be aware that the peak temperature at the top of Al-case and electrode terminals should not exceed peak temperature. Particular notice should be given to the time that Vishay OS-CON is heated at 200 °C or higher during reflow. Be aware that soldering considerably deviating from these conditions will cause problems such as a 50 % reduction in capacitance, and a considerable increase in leakage current.

The leakage current value may increase (from a few uA to a few mA) even within the above conditions. When the Vishay OS-CON is used in a DC circuit, the leakage current will decrease gradually through self-recovery after voltage is applied. If your reflow profile (reflow temperature, number of reflows, etc. deviates from the above conditions for mounting the 94 SVP series, please consult with Vishay OS-CON.

Soldering Profile and Land Pattern



Vishay OS-CON

Type 94SVP
Solid Aluminum Capacitors With Organic Semiconductor
Electrolyte Surface Mount Chip

STORAGE OF TYPE 94SVP:

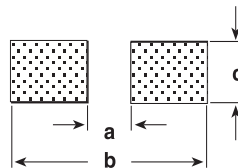
It is necessary to store these capacitors in a proper environment to prevent problems (degradation of solderability or appearance) when soldering. Keep these capacitors sealed in the reel and storage bag as delivered and store in the following environment:

- Room temperature and room humidity (generally + 15 °C to 25 °C, 45 % to 75 % RH).
- Place where capacitors are not exposed to direct sunshine.
- Also, set storage period at 6 months or shorter.

Unseal just before mounting. Return any remaining parts to storage bag and reseal bag securely with tape.

RECOMMENDED LAND PATTERN DIMENSIONS in millimeters

TYPE 94 SVP



DIMENSIONS in millimeters			
Case Code	a	b	c
A5	1.0	6.2	1.6
B6	1.4	7.4	1.6
C6	2.1	9.1	1.6
E7	2.8	11.1	1.9
F8	4.3	13.1	1.9
E12	2.8	11.1	1.9
F12	4.3	13.1	1.9