

## HC Series Capacitor Qualification

Product style: DSCC 93026 Part number: 93026 – 52  
Cap rating: 220 $\mu$ F Voltage rating: 100V Case size: T4 (D)

### BACKGROUND

In an effort to expand our product offerings, Evans Capacitor Company introduces a new HC capacitor line.

The HC is externally similar to the product defined by DSCC 93026. Internally, the HC couples Evans' patented RuO<sub>2</sub> cathode with a traditional tantalum anode and tantalum pentoxide dielectric. Also, the HC incorporates a double-seal design, with a crimped gasket primary seal, and a hermetically welded glass-to-metal seal. This design enables Evans to meet the criteria of DSCC 93026 for the 220 $\mu$ F-100V T4 rating.

### RESULTS

Acceptable behavior was exhibited by the 220 $\mu$ F-100V T4 design for all internal qualification tests performed. All tests were performed in-house, with the exception of the shock and vibration tests, which were performed by DSCC – Electronic Product Testing Center. The table below summarizes the tests performed, and the results observed.

Test	Specification	Figure(s)	Quantity	Rejects
Hermeticity (seal)	DSCC 93026 §3.3	N/A	31	0
Surge voltage	3hr, 85°C, 115V	N/A	31	0
AC/DC	DSCC 93026 §3.2	N/A	31	0
Temperature stability	DSCC 93026 §3.15	I, II, III	12	0
Shock (100G)	DSCC 93026 §3.4	IV	6	0
Vibration (20G)	DSCC 93026 §3.5	IV	6	0
Thermal shock	DSCC 93026 §3.6	N/A	6	0
Terminal strength	DSCC 93026 §3.9	N/A	12	0
Low temp storage	DSCC 93026 §3.14	N/A	12	0
Life test	2000hr, 85°C, 100V	V, VI, VII, VIII	20	0

Samples available on request