

**CAPACITORS****T83 Series Tantalum****HI-REL COTS INITIATIVE****T83 Series Surface-Mount Molded TANTAMOUNT®
Solid Tantalum Chip Capacitors****KEY BENEFITS**

- Initiative launched by Vishay and shared with distribution network
- Dedicated to avionics, military and industrial market
- Build-to-stock program, with accelerated lead times, samples, and small quantities
- Selected and popular Hi-Rel COTS ratings
- Offer includes most of Weibull failure rate up to C level and surge current up to option C (per MIL-PRF 55365) and any combinations from lower levels

APPLICATIONS

- High-reliability avionics and military applications
- Medical instrumentation, industrial market, computing, and data storage

RESOURCES

- Datasheet: T83 Series - <http://www.vishay.com/doc?40077>
- Tantalum product portfolio: <http://www.vishay.com/capacitors/tantalum/>
- FIT calculator: <http://www.vishay.com/capacitors/tantalum/capacitors/tantalum/tantalum-wet/tantalum-reliability-calculator-list/>
- Technical questions contact tantalum@vishay.com
- Sales contacts: <http://www.vishay.com/doc?99914>



**CAPACITORS****T83 Series Tantalum****HI-REL COTS INITIATIVE****T83 Series Surface-Mount Molded TANTAMOUNT®****Solid Tantalum Chip Capacitors****PRODUCT BENEFITS:**

The Hi-Rel COTS T83 molded tantalum chip capacitors offer a high level of performance due to tightened process control techniques insuring consistency and high quality.

- Weibull grading and surge-current test options per MIL PRF 55365
 - A, B, C, S, and Z Failure rate level
 - A, B, C, S, and Z Surge current options
- Features low ESR
 - Extends down to 100 mΩ at + 25 °C and 100 kHz
- High ripple current handling capability is key for ensuring stable output voltages
- Offered in five molded case sizes (A, B, C, D, and E)
- Capacitance range of 0.1 μF to 470 μF
- Voltage range from 4 V to 63 V
- Capacitance Tolerance: ± 5 %, ± 10 %, and ± 20 %
- **Solder fused termination finish (new!)**, tin/lead, RoHS
- Various packaging options

RATINGS AND CASE CODES AVAILABLE IN THE HI-REL COTS INITIATIVE PROGRAM

VISHAY P/N	CASE	LOW ESR (mΩ MAX)	TOLERANCE	FAILURE RATE	SURGE CURRENT
T83A106K010LCCL	A	1,800	10 %	C	C
T83A106K016LCCL	A	1,700		C	C
T83B106K016LCCL	B	500		C	C
T83C106K025LCCL	C	350		C	C
T83C475K035LCCL	C	600		C	C
T83C105K050LCCL	C	1,600		C	C
T83D476K025LCCL	D	175		C	C
T83D685K035LCCL	D	300		C	C
T83D106K035LCCL	D	250		C	C
T83D475K050LCCL	D	300		C	C
T83E107K016LCCL	E	100		C	C
T83E686K020LCCL	E	150		C	C
T83E156K050LCCL	E	350		C	C
T83E227K010LCCL	E	100		C	C

View complete datasheet <http://www.vishay.com/doc?40077>