TANTALUM CAPACITORS

vPolyTan™ Solid Tantalum Surface-Mount Chip Capacitors, Molded Case, High-Performance Polymer Type



KEY BENEFITS

- Low ESR from 500 m Ω down to 30 m Ω
- Requires only 20% derating
- Small sizes: J (1608-09), P (2012-12), A (3216-18), B (3528-21) and T (3528-12)
- Capacitance from 3.3 µF to 330 µF
- Voltage from 2.5 V to 10 V
- RoHS-compatible

APPLICATIONS

- Laptop computers and tablets
- Smartphones
- Wireless cards
- USB port decoupling

RESOURCES

- Datasheet: T55 www.vishay.com/doc?40174
- For technical questions contact tantalum@vishay.com
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912







HALOGEN GREEN ROHS

One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components



TANTALUM CAPACITORS

T55

vPolyTan™ Solid Tantalum Surface-Mount Chip Capacitors, Molded Case, High-Performance Polymer Type



PERFORMANCE / ELECTRICAL CHARACTERISTICS

Operating Temperature: -55 °C to +105 °C (above 85 °C, voltage derating is required) Capacitance Range: $3.3~\mu F$ to $330~\mu F$ Capacitance Tolerance: $\pm~20~\%$ Voltage Rating: $2.5~V_{DC}$ to $10~V_{DC}$

FEATURES

- Ultra-low ESR
- Molded case available in 5 case codes
- Terminations: cases J, P, and A: 100 % tin cases B and T: Ni/Pd/Au
- Compatible with high-volume automatic pick and place equipment
- Moisture sensitivity level 3
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Decoupling, smoothing, filtering
- Bulk energy storage in wireless cards
- Infrastructure equipment
- Storage and networking
- Computer motherboards
- Smartphones and tablets

ORDERING INFORMATION									
T55	В	156	M	6R3	С	0500			
TYPE	CASE CODE See Ratings and Case Codes table	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	CAPACITANCE TOLERANCE M = ± 20 %	DC VOLTAGE RATING AT +85 °C I This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V)	TERMINATION / PACKAGING C = lead (Pb)-free solderable coating, 7" reel	ESR Maximum 100 kHz ESR in mΩ			

	RATINGS AND CAS	SE CODES			
	μF	2.5 V	4.0 V	6.3 V	10 V
	3.3			J/P	J/P
	4.7			J/P/A	P/A
	6.8			P/A	A
	10		J/P/A	P/A	A
	15		P/A	А	A
	22		A/B	A	A/T/B
	33		A/B	A/T/B	A/T/B
	47		A/T/B	A/T/B	В
	68		A/T/B	T/B	
71-gr	100		T/B	A/B	
)5-AL	150		В	В	
Revision 05-Aug-14	220	В	В	В	
Revis	330	В			