



# KEMET Organic Capacitor (KO-CAP) T527 Facedown Terminal Polymer Tantalum



## Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

## Features & Benefits

- Polymer cathode technology
- Low profile: 1.0 mm maximum
- Non-ignition failure mode
- Improved volumetric efficiency
- Self-healing mechanism
- Use up to 90% of rated voltage (10% derating)
- RoHS compliant and Halogen Free
- Lead free 260°C reflow capable

## Product Checklist

- What is the circuit switching frequency?
- What is the circuit operating voltage?
- Are there any environmental concerns?
- Are there any height restrictions?
- Are there board space restrictions?
- Do you have piezo noise or harmonic distortion concerns with ceramics?
- Are you building an audio circuit?

For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.

## Programs Supported

- Smart phones
- MP3 players
- Digital cameras
- GPS navigation systems
- WIFI modules
- Analytical and test equipment
- Audio/sound circuits

## Electrical/Physical Characteristics

Case Size	Tolerances	Cathode Material	Temperature Range	Voltage Options	Capacitance Values
<b>T527</b>					
3216 (1206 MLCC Equivalent)	M Tolerance (20%)	Polymer	-55°C – 105°C	4 – 10 V	22 $\mu$ F – 100 $\mu$ F



## Ordering Information

Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Failure Rate/Design	Lead Material	ESR Code	Packaging (C-Spec)
T	527	I	476	M	006	A	T	E200	
T = Tantalum	527 = Facedown Terminal Polymer	I = 3216-10	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm$ 20%	004 = 4 V 006 = 6.3 V 010 = 10 V	A = N/A	T = 100% Tin (Sn)	E = ESR Last three digits specify ESR in m $\Omega$ (200 = 200 m $\Omega$ )	Blank = 7" Reel