

# Tantalum High Reliability Commercial Off-the-Shelf (COTS)



**T428 Series High Volumetric Efficiency** Facedown MnO<sub>2</sub>

# 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

- · Highest capacitance and volumetric efficiency (CV/cc) of any molded leadframe product
- · Higher power dissipation
- · Pick-and-place friendly molded package eliminates "drops" associated with conformal
- · Enhanced ripple current
- Taped and reeled per EIA 481-1
- · SnPb termination finish
- · Laser-marked case
- 100% surge current test available
- · Halogen-free epoxy
- · Extended range values
- RoHS Compliance and lead-free terminations available

### Product Checklist

- · What is the circuit operating voltage?
- · What is the application temperature?
- What are the physical space restrictions?
- · What is the necessary reliability level?
- What is the expected annual volume?

# **Programs Supported**

Typical applications include radar pulse and switched-mode power supply decoupling and filtering in the following industries:

- Telecommunications
- Industrial
- Computer
- Defense
- Aerospace



## **KEMET Electrical/Physical Characteristics**

Case Sizes	Р				
Tolerances	<u>+</u> 5%, <u>+</u> 10%, <u>+</u> 20%				
Dielectric	Tantalum MnO <sub>2</sub>				
Temperature Range	-55°C to +125°C				
Voltage Options	4 – 50 VDC				
Capacitance Values	15 – 470 μF				

# **Ordering Information**

T	428	P	227	K	006	A	Н	61	10
Capacitor Class	Series		Capacitance Code (pF)	Capacitance Tolerance		Failure Rate/ Design	Lead Material	Surge	ESR
T= Tantalum	High Volumetric Efficiency Facedown Hi-Rel MnO <sub>2</sub> COTS		: 3	$K = \pm 10\%$ $M = \pm 20\%$	004 = 4 V 006 = 6.3 V	A = N/A B = 0.1% /1000 hrs	H = Standard solder coated (SnPb 5% Pb minimum) T = 100% tin (Sn)	62 = 10	20 = Low 30 = Ultra low

For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.

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