

## T513X227K016BT6420

T513 HRA, Tantalum, MnO<sub>2</sub> Tantalum, HRA Multi-Anode, 220 uF, 10%, 16 VDC, SMD, MnO<sub>2</sub>, Molded, Military Equivalent, MAT High Reliability, B (0.1%/1000 Hrs), 25 mOhms, 4.3 mm, 2817 / 7343



Click [here](#) for the 3D model.

### General Information

Series	T513 HRA
Dielectric	MnO <sub>2</sub> Tantalum
Style	SMD Chip
Description	SMD, MnO <sub>2</sub> , Molded, Military Equivalent, MAT High Reliability
Features	Low ESR
RoHS	Yes
Termination	Tin
Typical Component Weight	430.15 mg

### Dimensions

L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
H	4mm +/-0.3mm
T	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
A	3.8mm MIN
B	0.5mm +/-0.15mm
E	3.5mm REF
G	3.5mm REF
P	1.7mm REF
R	1mm REF
X	0.1mm +/-0.1mm REF

### Specifications

Capacitance	220 uF
Tolerance	10%
Voltage DC	16 VDC (85C), 10.72 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	10% 120Hz 25C
Failure Rate	B (0.1%/1000 Hrs)
ESR	25 mOhms (100kHz 25C)
Ripple Current	2570 mA (rms, 100kHz 25C)
Leakage Current	35.2 uA (5min 25°C)
Testing and Reliability	10 Cycles Surge Current Testing At -55C +/-5C And +85C +/-5C Before Weibull

### Packaging Specifications

Packaging	T&R, 178mm
Packaging Quantity	500

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