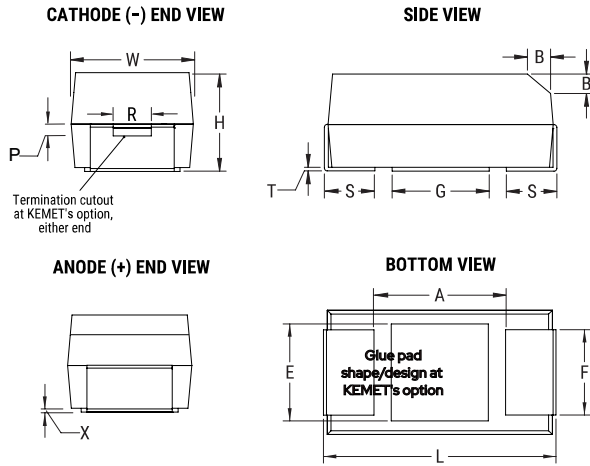


T513X687K004BT6410

T513 HRA, Tantalum, MnO₂ Tantalum, HRA Multi-Anode, 680 uF, 10%, 4 VDC, SMD, MnO₂, Molded, Military Equivalent, MAT High Reliability, B (0.1%/1000 Hrs), 30 mOhms, 7343, 4.3 mm, 1.3 mm



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

General Information

Series	T513 HRA
Dielectric	MnO ₂ Tantalum
Style	SMD Chip
Description	SMD, MnO ₂ , Molded, Military Equivalent, MAT High Reliability
Features	Low ESR
RoHS	Yes
Termination	Tin
AEC-Q200	No
Typical Component Weight	430.15 mg

Specifications

Capacitance	680 uF
Tolerance	10%
Voltage DC	4 VDC (85C), 2.68 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C
Failure Rate	B (0.1%/1000 Hrs)
ESR	30 mOhms (100kHz 25C)
Ripple Current	2340 mA (rms, 100kHz 25C)
Leakage Current	27.2 uA (5min 25°C)
Testing and Reliability	10 Cycles Surge Current Testing At -55C And +85C Before Weibull

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

Packaging Specifications

Packaging	T&R, 178mm
Packaging Quantity	500

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