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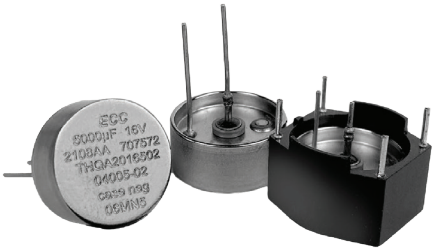
Hybrid Wet Tantalum

THQA2M2
Series

DLA 04005



- The THQA2 comes in a 0.6" round diameter base
- The THQM2 packages the THQA2 in a 4 pin DAP mount
- Voltages range from 10V-125V
- Cap values range from 215µF – 10,000µF
- Temperature range of -55°C to 125°C
- Standard tolerance ±20% (±10% available)

Product Overview

The THQA2 and THQM2 series capacitors utilize sintered tantalum anodes and ruthenium oxide coated cathodes operating in aqueous electrolyte with additives. The components are hermetically sealed in a welded tantalum case with a glass-to-metal anode terminal seal.

The THQA2 series capacitors come in a 0.6” round diameter case. The THQM2 series packages the THQA2 capacitor in a 4 pin DAP mount.

Electrical	Physical
Rated Voltage Range 10VDC to 125VDC	**Solderability** To ANSI J-STD-002
Capacitance Range 215µF to 10,000µF	**Operating Temperature Range** -55ºC to +85ºC or 125ºC with voltage derating (see page 3)
Life (@ 85ºC) >2000 hours @ Rated Voltage	**Storage Temperature Range** - 62ºC to +130ºC

Mechanical

Test	Method	Condition	Remarks
Shock	MIL-STD-202 METHOD 213	G	11 ms, 50G
Vibration	MIL-STD-202 METHOD 204	D	12 sweeps/axis, 20G peak
	MIL-STD-202 METHOD 214	I, Letter D	1.5 hours/axis, 12G rms
Moisture Resistance	MIL-STD-202 METHOD 106		6V bias

Capacitor Life

THQA2/M2 Series capacitors have an unlimited shelf life and are rated for >2,000 hours at 85°C and rated voltage or 125°C at derated voltage.

Environmental Compliance

THQA2/M2 Series are not RoHS compliant. THQA2/M2 series are REACH compliant.
- The standard terminals are 60/40 SnPb plated Nickel Wire
- RoHS compliant Lead free versions available. See part numbering nomenclature for ordering info.

Export Classification

THQA2 and THQM2 series capacitors are **ECCN EAR99**

Handling Guidelines

Attachment /Mounting by leads only is not allowed. Always ensure capacitor is firmly secured to PWB

Provide adequate care to protect the Glass to Metal Seal (GTMS)

- Avoid forces on the (+) pin, lateral, axial or torque.
- Avoid Mechanical Shock of any kind to the pin.
- Secure the part to PWB before soldering.

Soldering

- Use through-hole soldering methods in accordance with ANSI/IPC J-STD-001.

Lead trimming

- Provide adequate care if leads must be trimmed. Positive terminal can not be trimmed below the ball weld (0.167 from rim).

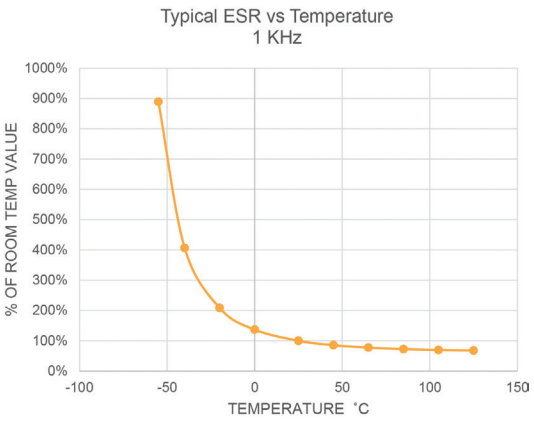
Part Number Description

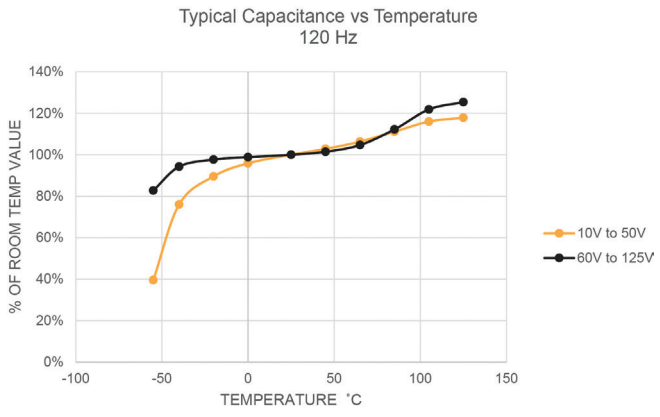
Product Series	Voltage Rating	Cap Rating	Option: ±10% Rating	Optional: Lead Free
THQ(X)2	XXX	XXX	K	LF

Ratings Table

Part Number	DLA PN	Voltage_85°C	Voltage_125°C	Cap (µF)	ESR (mΩ)	Height (in)	Mass (g)
THQA2010103	04005-01	10	6	10.000	200	0.274	8
THQM2010103	04005-11	10	6	10.000	200	0.45	10
THQA2016502	04005-02	16	9.5	5.000	200	0.274	8
THQM2016502	04005-12	16	9.5	5.000	200	0.45	10
THQA2025382	04005-03	25	15	3.800	200	0.274	8
THQM2025382	04005-13	25	15	3.800	200	0.45	10
THQA2030302	04005-04	30	18	3.000	250	0.274	8
THQM2030302	04005-14	30	18	3.000	250	0.45	10
THQA2035252	04005-05	35	21	2.500	250	0.274	8
THQM2035252	04005-15	35	21	2.500	250	0.45	10
THQA2050152	04005-06	50	30	1.500	250	0.274	8
THQM2050152	04005-16	50	30	1.500	250	0.45	10
THQA2060871	04005-07	60	36	870	350	0.274	8
THQM2060871	04005-17	60	36	870	350	0.45	10
THQA2075561	04005-08	75	45	565	500	0.274	8
THQM2075561	04005-18	75	45	565	500	0.45	10
THQA2100361	04005-09	100	60	360	800	0.274	8
THQM2100361	04005-19	100	60	360	800	0.45	10
THQA2125211	04005-10	125	75	215	1250	0.274	8
THQM2125211	04005-20	125	75	215	1250	0.45	10

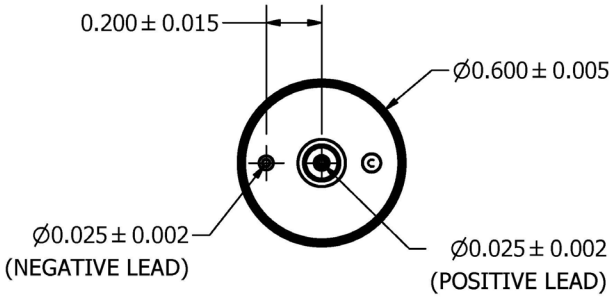
Average Electrical Performance





2D Drawing - THQA2

FIGURE 1: THQA2



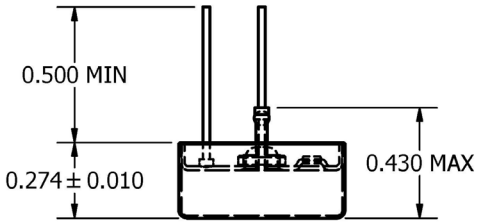
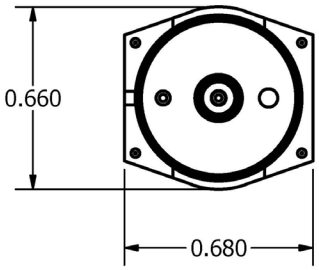
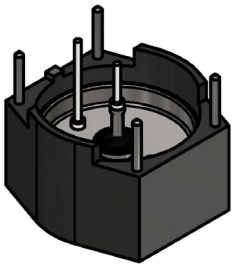
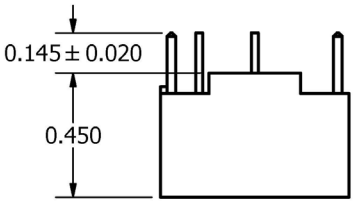


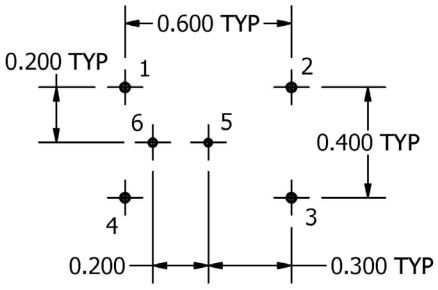
FIGURE 2: THQM2





TERMINALS: 60/40 Sn/Pb PLATED		
#	PCB	DIA.
1	N/C	0.032
2	N/C	0.032
3	N/C	0.032
4	N/C	0.032
5	+	0.025 ± 0.002
6	-	0.025 ± 0.002





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