

Vishay

Wet Tantalum Capacitor, Assembly or Array, All-Tantalum Case, -55 °C to +125 °C Operation



INTRODUCTION

By use of the latest techniques of manufacture, Vishay is able to offer a new range of modules giving a size and weight advantage over the well proven MC range while still retaining a very high CV rating.

The MT2 series is an epoxy resin encapsulation of hermetically sealed units to give a robust construction of long life and high reliability under military and avionic environments.

In common with all Castanet capacitors of the "all-tantalum" construction they are capable of withstanding 3 V in reverse, and of handling high levels of ripple current.

The modules incorporate parallel connected 735D series, tubular "all-tantalum" construction capacitors already fully tested to the requirements of BS CECC 30 202 001.

Mounting is by bolting through two 3 mm clearance holes, and the units are stackable.

Metal heatsinks between the modules are recommended if the units are stacked.

APPLICATIONS

The MT2 is ideal for use in military and professional applications, including power supply "smoothing", filter networks, and timer functions.

WEIGHT

The approximate weight of a module is 65 g.

FEATURES

- High volumetric efficiency
- · Withstands high ripple current
- Long life reliability
- Reverse voltage capability
- Stackable
- No silver migration problems

PERFORMANCE CHARACTERISTICS

Operating Temperature: -55 °C to +125 °C Voltage Range: 6 V_{DC} to 125 V_{DC} Capacitance Range: 220 µF to 6000 µF

SPECIFICATIONS

Environmental Classification: -

Vibration: -

Bump: -

Shock: -

Acceleration: -

Low Air Pressure: -

APPROVALS

These capacitors are available released to:

• BS CECC 30 202 009

REVERSE VOLTAGE CAPABILITY

The MT2 series employ tantalum cathodes which allow the continuous application of reverse potentials not exceeding 3 V over the whole temperature range.

SURGE VOLTAGE

The surge voltage capability is 115 % of the voltage rating at the relevant temperature.

TEMPERATURE RANGE

The capacitor is designed for operation between -55 °C and +125 °C, with linear voltage derating above +85 °C to 66 % of the rated voltage at +125 °C.

CAPACITANCE TOLERANCE

The standard capacitance tolerance is \pm 20 % although special tolerances are available by arrangement.

1 For technical questions, contact: <u>tantalum@vishay.com</u>



Vishay

APPLICATION INFORMATION

Capacitors may be operated at less than the rated voltage, resulting in significantly reduced leakage current values.

In timing circuits, or other applications where the device is subjected only to a DC voltage, the ballistic or DC capacitance will be somewhat larger than measured at 50 Hz.

The parametric information must necessarily be brief, although additional comprehensive data is available on request, and the tests tailored to customers' requirements can be made.

RELIABILITY

All capacitors are subjected to burn-in. This is to remove infant mortalities and ensure reliability. The capacitor lifetime is enhanced when the unit is subjected to a reduced ripple current, a low ambient temperature, and is externally cooled. The use of a heat sink is recommended.

STACKING

The units are suitable for stacking by use of through bolts. It is strongly recommended that a metal heat sink is used between each unit in order to eliminate the possibility of hot spots.

ESTABLISHED FAILURE RATE

The MT range incorporates 735D capacitors which are structurally similar to and subjected to the same processes as our 135D and MIL-PRF-39006 range which is to an established failure rate of level R, 0.01 % per 1000 h at a 60 % confidence level. The CECC system of testing does not readily yield data to prove these levels, but in-house testing supports this figure.

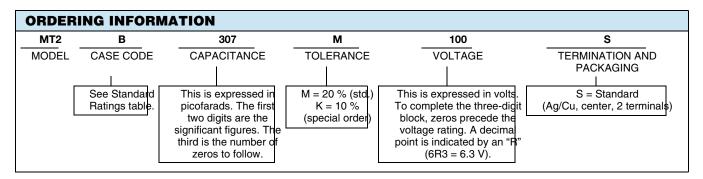
Although failure rates derived from life tests are a useful guide, in practice capacitors rarely see conditions of a steady DC voltage and temperature. The construction of the MT module gives an ability to handle the high ripple currents at high frequencies, reverse voltages up to 3 V, and extremes of temperature likely to be encountered in modern circuitry.

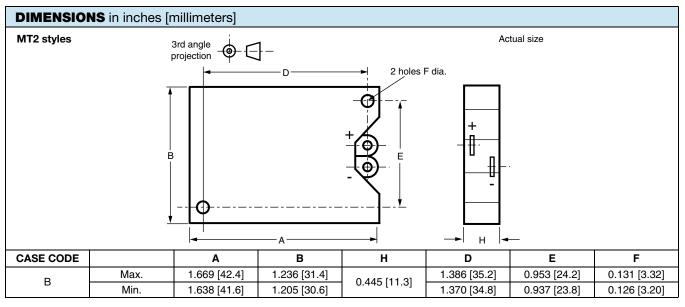
ALTERNATIVE CONSTRUCTION

Alternative constructions based on the module range with differing terminal configurations and capacitor combinations including series connected units are available.

ORDERING PROCEDURE

Example: MT2B (300 µF, 100 V_{DC}) Vishay Part Number: MT2B307M100S





Revision: 28-Jan-14

Document Number: 42097



www.vishay.com

Series MT2

Vishay

VISHAY PART NUMBERS CASE CODE CAPACITIANCE AT 100 Hz (µF) DISSIPATION FACTOR IMPEDANCE AT 100 Hz (µA) MAX. DCL (µA) A 100 Hz (µA)	STANDARD	RATIN	NGS								
Image: Problem interfamily and the			AT 100 Hz	AT 1	00 Hz	AT 100 kHz	Ν		A	AT 100 H	łz
MT2B008M006S B 600 170 170 22 18 54 -90 25 25 MT2B568M6R3S B 5600 170 170 22 18 54 -90 25 25 MT2B568M6R3S B 5600 138 24 21 75 -88 25 25 MT2B508M008S B 5000 138 138 24 21 75 -88 25 25 MT2B408M010S B 4100 114 114 23 21 75 -88 25 25 MT2B418M010S B 4700 114 114 23 21 75 -88 25 25 MT2B348M015S B 3400 103 103 25 24 96 -84 25 25 MT2B348M016S B 330 133 25 24 96 -80 25 25 MT2B348M020S B			(μF)	20 °C	125 °C	-55 °C	20 °C	85 °C/125 °C	-55 °C	85 °C	125 °C
MT2B008M006S B 600 170 170 22 18 54 -90 25 25 B 5600 170 170 22 18 54 -90 25 25 B 5000 138 24 21 75 -88 25 25 T2B5080M00S B 5000 138 24 21 75 -88 25 25 T2B3080M010S B 4100 114 114 23 21 75 -88 25 25 T72B3980M010S B 4700 114 114 23 21 75 -88 25 25 T72B39810010S B 5100 138 138 24 21 75 -88 25 25 T2B34810015S B 3400 103 125 24 96 -80 25 25 T2B3490026S B 2500 65				6 V _{DC} /	AT 85 °C; 4 V _c	_C AT 125 °C					
MT2B568M6R3S B 5600 170 170 22 16 54 -90 25 25 MT2B508M008S B 5000 138 133 24 21 75 -88 25 25 MT2B308M010S B 3900 114 114 23 21 75 -88 25 25 MT2B418M010S B 4100 114 114 23 21 75 -88 25 25 MT2B418M010S B 4700 114 114 23 21 75 -88 25 25 MT2B518M010S B 4700 114 114 23 21 75 -88 25 25 MT2B308M016S B 3400 103 103 25 24 96 -84 25 25 MT2B328M016S B 2350 60 60 24 24 96 -80 25 25	MT2B608M006S	В	6000	170	170	22	18	54	-90	25	25
B V _{DC} AT 85 °C; 5 V _{DC} AT 125 °C MT2B508M008S B 5000 138 138 24 21 75 -88 25 25 MT2B398M010S B 3900 114 114 23 21 75 -88 25 25 MT2B418M010S B 4100 114 114 23 21 75 -88 25 25 MT2B418M010S B 4700 114 114 23 21 75 -88 25 25 MT2B518M010S B 5100 138 138 24 21 75 -88 25 25 MT2B398M015S B 3400 103 103 25 24 96 -84 25 25 MT2B398M015S B 3300 103 103 25 24 96 -80 25 25 MT2B398M015S B 2350 60 60 24 24 96 80				6.3 V _{DC}	AT 85 °C; 4 V	_{DC} AT 125 °C					
MT2B508M008S B 5000 138 138 24 21 75 -88 25 25 MT2B398M010S B 3900 114 114 23 21 75 -88 25 25 MT2B478M010S B 4100 114 114 23 21 75 -88 25 25 MT2B478M010S B 4100 114 114 23 21 75 -88 25 25 MT2B478M010S B 5100 138 138 24 21 75 -88 25 25 MT2B38M016S B 3400 103 103 25 24 96 -84 25 25 MT2B38M020S B 2300 60 60 24 24 96 -80 25 25 MT2B38M020S B 2700 95 95 26 24 96 -80 25 25 MT2B2	MT2B568M6R3S	В	5600	170	170	22	18	54	-90	25	25
10 Vpc AT 85 °C; 7 Vpc AT 125 °C MT2B398M010S B 3900 114 114 23 21 75 -88 25 25 MT2B478M010S B 4100 114 114 23 21 75 -88 25 25 MT2B478M010S B 4700 114 114 23 21 75 -88 25 25 MT2B348M010S B 3400 103 103 25 24 96 -84 25 25 MT2B338M016S B 3300 103 103 25 24 96 -80 25 25 MT2B248M020S B 2350 60 60 24 24 96 -80 25 25 MT2B258M020S B 2600 95 26 24 96 -80 25 25 MT2B158M025S B 1600 60 62 24 96 -80 25 25 </td <td></td> <td></td> <td></td> <td>8 V_{DC} /</td> <td>AT 85 °C; 5 V_c</td> <td>_{oc} AT 125 °C</td> <td></td> <td></td> <td></td> <td></td> <td></td>				8 V _{DC} /	AT 85 °C; 5 V _c	_{oc} AT 125 °C					
MT2B398M010S B 3900 114 114 23 21 75 -88 25 25 MT2B418M010S B 4100 114 114 23 21 75 -88 25 25 MT2B518M010S B 5100 138 132 24 21 75 -88 25 25 MT2B348M010S B 3400 103 103 25 24 96 -84 25 25 MT2B338M016S B 3400 103 103 25 24 96 -84 25 25 MT2B338M016S B 3300 103 103 25 24 96 -80 25 25 MT2B248M020S B 2700 95 95 26 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80	MT2B508M008S	В	5000				21	75	-88	25	25
MT2B418M010S B 4100 114 114 23 21 75 -88 25 25 MT2B478M010S B 5100 138 138 24 21 75 -88 25 25 TS Voc AT 85 °C; 10 Voc AT 125 °C MT2B348M015S B 3400 103 103 25 24 96 -84 25 25 TBV2by AT 85 °C; 13 Voc AT 125 °C MT2B348M015S B 2330 60 60 24 96 -80 25 25 TOVoc AT 85 °C; 13 Voc AT 125 °C MT2B348M020S B 2300 95 95 26 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 80 25 25				10 V _{DC}	AT 85 °C; 7 V	_{DC} AT 125 °C					
MT2B478M010S B 4700 114 114 23 21 75 -88 25 25 MT2B518M010S B 5100 138 138 24 21 75 -88 25 25 MT2B5348M015S B 3400 103 103 25 24 96 -84 25 25 MT2B338M016S B 3300 103 103 25 24 96 -80 25 25 MT2B434M020S B 2700 95 95 26 24 96 -80 25 25 MT2B44M020S B 2700 95 95 26 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1950 60 60 24 24 96 -80 25 25 MT2B158						-		-			-
MT2B518M010S B 5100 138 138 24 21 75 -68 25 25 IS Vig AT 85 °C; 10 Vig AT 125 °C IT BV 30 103 25 24 96 -84 25 25 IT BV 30 AT 85 °C; 10 Vig AT 125 °C IT 20 Vig AT 85 °C; 13 Vig AT 125 °C IT 20 Vig AT 85 °C; 13 Vig AT 125 °C IT 25 Vig AT 85 °C; 16 Vig AT 125 °C IT 28 Vig AT 85 °C; 16 Vig AT 125 °C IT 28 Vig AT 85 °C; 16 Vig AT 125 °C IT 28 Vig AT 85 °C; 16 Vig AT 125 °C IT 28 Vig AT 85 °C; 16 Vig AT 125 °C IT 28 Vig AT 85 °C; 16 Vig AT 125 °C IT 28 Vig AT 85 °C; 10 Vig AT 125 °C IT 28 Vig AT 85 °C; 20 Vig AT 125 °C IT 28 Vig AT 85 °C; 20 Vig AT 125 °C IT 28 Vig AT 85 °C; 20 Vig AT 125 °C IT 28 °C IT 200 45 30<											
15 V _{DC} AT 85 °C; 10 V _{DC} AT 125 °C MT2B348M015S B 3400 103 103 25 24 96 -84 25 25 MT2B338M016S B 3300 103 103 25 24 96 -84 25 25 MT2B338M016S B 3300 103 103 25 24 96 -84 25 25 MT2B248M020S B 2350 60 60 24 24 96 -80 25 25 MT2B248M020S B 2700 95 95 26 24 96 -80 25 25 MT2B158M02SS B 1500 60 60 24 24 96 -80 25 25 MT2B128M02SS B 1950 60 60 24 24 96 -80 25 25 MT2B128M02SS B 1950 60 60 24 24 96 -8						-					
MT2B348M015S B 3400 103 103 25 24 96 -84 25 25 If V _{DC} AT 85 °C; 10 V _{DC} AT 125 °C MT2B338M016S B 3300 103 103 25 24 96 -84 25 25 MT2B338M016S B 3300 60 60 24 24 96 -80 25 25 MT2B278M020S B 2350 60 60 24 24 96 -80 25 25 MT2B158M020S B 2600 95 95 26 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1030 45	MT2D310M0103	D	5100				21	75	-00	25	20
16 V _{DC} AT 85 °C; 10 V _{DC} AT 125 °C IMT2B338M016S B 3300 103 103 25 24 96 -84 25 25 20 V _{DC} AT 85 °C; 13 V _{DC} AT 125 °C IMT2B248M020S B 2350 60 60 24 24 96 -80 25 25 MT2B248M020S B 2700 95 95 26 24 96 -80 25 25 TEV V _{DC} AT 85 °C; 16 V _{DC} AT 125 °C MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1950 60 60 24 24 96 -80 25 25 MT2B128M025S B 2200 60 60 24 24 96 -80 2	MT2B249M015S	P	2400	= -			24	06	9/	25	25
MT2B338M016S B 3300 103 103 25 24 96 -84 25 25 DVDc AT 85 °C; 13 VDc AT 125 °C V	INT2D340IVI0155	D	3400				24	90	-04	25	20
20 V _{Dc} AT 85 °C; 13 V _{Dc} AT 125 °C MT2B248M020S B 2350 60 60 24 24 96 -80 25 25 MT2B278M020S B 2600 95 95 26 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B158M025S B 1600 60 60 24 24 96 -80 25 25 MT2B28M025S B 1950 60 60 24 24 96 -80 25 25 MT2B248M025S B 2400 95 95 26 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B148M030S B 1300 45 45 30 27 108 -70	MT2B338M016S	B	3300	-		-	24	96	-84	25	25
MT2B248M020S B 2350 60 60 24 24 96 -80 25 25 MT2B228M020S B 2700 95 95 26 24 96 -80 25 25 MT2B268M020S B 2600 95 95 26 24 96 -80 25 25 MT2B158M025S B 1600 60 60 24 24 96 -80 25 25 MT2B158M025S B 1600 60 60 24 24 96 -80 25 25 MT2B28M025S B 1950 60 60 24 24 96 -80 25 25 MT2B128M025S B 2400 95 95 26 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 25	WI12D336W0103	Б	3300				24	90	-04	25	20
MT2B278M020S B 2700 95 95 26 24 96 -80 25 25 MT2B268M020S B 2600 95 95 26 24 96 -80 25 25 MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B168M025S B 1950 60 60 24 24 96 -80 25 25 MT2B28M025S B 1950 60 60 24 24 96 -80 25 25 MT2B28M025S B 2200 60 60 24 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B178M030S B 1300 45 45 30 27 108 -70 25 25 MT2B128M040S <td>MT2B248M020S</td> <td>В</td> <td>2350</td> <td>-</td> <td></td> <td>-</td> <td>24</td> <td>96</td> <td>-80</td> <td>25</td> <td>25</td>	MT2B248M020S	В	2350	-		-	24	96	-80	25	25
MT2B268M020S B 2600 95 95 26 24 96 -80 25 25 LS V _{DC} AT 85 'C; 16 V _{DC} AT 125 'C MT2B158M025S B 1600 60 60 24 24 96 -80 25 25 MT2B158M025S B 1600 60 60 24 24 96 -80 25 25 MT2B208M025S B 2200 60 60 24 24 96 -80 25 25 MT2B248M025S B 2400 95 95 26 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B138M040S B 1300 45 45 30 27 108 -70 25 25 MT2B138M040S B 1200 45 45 30 27 108 -70 <td></td> <td>-</td>											-
MT2B158M025S B 1500 60 60 24 24 96 -80 25 25 MT2B168M025S B 1600 60 60 24 24 96 -80 25 25 MT2B28M025S B 2200 60 60 24 24 96 -80 25 25 MT2B28M025S B 2400 95 62 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1200 43 43 30 27 108 -70 25 25 55 MT2B128M040S<											
MT2B168M025S B 1600 60 60 24 24 96 -80 25 25 MT2B208M025S B 1950 60 60 24 24 96 -80 25 25 MT2B28M025S B 2400 95 95 26 24 96 -80 25 25 MT2B128M025S B 2400 95 95 26 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B148M030S B 1200 43 43 30 24 96 -75 25 25 MT2B138M040S B 1200 43 43 30 24 96 -75 25 25 MT2B138M040S B 1200 43 43 30 27 108 -70 24 25 25 MT2B138M040S B 100 40 40 33 27 108 -70				25 V _{DC} /	AT 85 °C; 16 V	/ _{DC} AT 125 °C					
MT2B208M02SS B 1950 60 60 24 24 96 -80 25 25 MT2B2248M02SS B 2400 95 95 26 24 96 -80 25 25 MT2B248M02SS B 2400 95 95 26 24 96 -80 25 25 MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B178M030S B 1650 40 40 30 27 108 -80 25 25 MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1300 45 45 30 27 108 -70 25 25 MT2B138M040S B 900 40 40 33 27 108 -70 24 25 MT2B57M063S	MT2B158M025S	В	1500	60	60	24	24	96	-80	25	25
MT2B228M025S B 2200 60 60 24 24 96 -80 25 25 MT2B248M025S B 2400 95 95 26 24 96 -80 25 25 SO V _{DC} AT 85 °C; 20 V _{DC} AT 125 °C MT2B148M030S B 1350 45 40 30 27 108 -80 25 25 MT2B148M030S B 1350 45 40 30 27 108 -80 25 25 MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 SO V _{DC} AT 85 °C; 30 V _{DC} AT 125 °C MT2B307M050S B 900 40 40 33 27 108 -70 25 25 MT2B3757M063S B 750 40 40 33 27 108 -70 24 25 STSTM063S B <td>MT2B168M025S</td> <td>В</td> <td>1600</td> <td>60</td> <td>60</td> <td>24</td> <td>24</td> <td>96</td> <td>-80</td> <td>25</td> <td>25</td>	MT2B168M025S	В	1600	60	60	24	24	96	-80	25	25
MT2B248M02SS B 2400 95 95 26 24 96 -80 25 25 30 V_{DC} AT 85 °C; 20 V_{DC} AT 125 °C MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 40 V_{DC} AT 85 °C; 25 V_{DC} AT 125 °C 40 V_{DC} AT 85 °C; 30 V_{DC} AT 125 °C MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1300 45 45 30 27 108 -70 25 25 MT2B138M040S B 900 40 40 33 27 108 -70 24 25 MT2B118M050S B 750 40 40 33 27 108 -70 24 25											-
30 V _{DC} AT 85 °C; 20 V _{DC} AT 125 °C MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B178M030S B 1650 40 40 30 27 108 -80 25 25 40 V _{DC} AT 85 °C; 25 V _{DC} AT 125 °C MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1300 45 45 30 27 108 -80 25 25 MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B907M050S B 900 40 40 33 27 108 -70 24 25 MT2B757M063S B											
MT2B148M030S B 1350 45 45 30 27 108 -80 25 25 MT2B178M030S B 1650 40 40 30 27 108 -80 25 25 M0 Vpc AT 85 °C; 25 Vpc AT 125 °C MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B128M040S B 1200 43 43 30 27 108 -70 25 25 MT2B128M040S B 900 40 40 33 27 108 -70 25 25 MT2B907M050S B 900 40 40 33 27 108 -70 24 25 MT2B757M063S B 750 40 40 33	MT2B248M025S	В	2400			-	24	96	-80	25	25
MT2B178M030S B 1650 40 40 30 27 108 -80 25 25 40 V_{DC} AT 85 °C; 25 V_{DC} AT 125 °C MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B138M040S B 1300 45 45 30 27 108 -80 25 25 50 V_{DC} AT 85 °C; 30 V_{DC} AT 125 °C MT2B907M050S B 900 40 40 30 27 108 -70 25 25 63 V_{DC} AT 85 °C; 40 V_{DC} AT 125 °C C 70 24 25 MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B188/2M063S B 820 40 40 33 27 108 -70 24 25 MT2B108M063S B 300 11 13 29			1050	-		-	07	100	00	05	05
40 V _{DC} AT 85 °C; 25 V _{DC} AT 125 °C MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B138M040S B 1300 45 45 30 27 108 -80 25 25 50 V _{DC} AT 85 °C; 30 V _{DC} AT 125 °C MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B138M050S B 1100 40 40 33 27 108 -70 25 25 MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B108M063S B 820 40 40 33 27 108 -70 24 25 MT2B108M063S B 1000 32 32 31 30 120 -72 25 25 MT2B37M075S B 330 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
MT2B128M040S B 1200 43 43 30 24 96 -75 25 25 MT2B138M040S B 1300 45 45 30 27 108 -80 25 25 SO V _{DC} AT 85 °C; 30 V _{DC} AT 125 °C MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B907M050S B 900 40 40 33 27 108 -70 24 25 25 MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B108M063S B 1000 32 32 30	WT2DT70W0303	D	1050	-	-		21	100	-00	20	20
MT2B138M040S B 1300 45 45 30 27 108 -80 25 25 MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B118M050S B 1100 40 40 30 27 108 -70 25 25 MT2B118M050S B 1100 40 40 30 27 108 -70 25 25 MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B108M063S B 1000 32 32 31 30 120 -72 25 25 MT2B37M075S B 330 11 13 29 9 72 -35 20 20 MT2B37M075S <td>MT2B128M040S</td> <td>B</td> <td>1200</td> <td>-</td> <td></td> <td>-</td> <td>24</td> <td>96</td> <td>-75</td> <td>25</td> <td>25</td>	MT2B128M040S	B	1200	-		-	24	96	-75	25	25
50 V _{DC} AT 85 °C; 30 V _{DC} AT 125 °C MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B118M050S B 1100 40 40 30 27 108 -70 25 25 63 V _{DC} AT 85 °C; 40 V _{DC} AT 125 °C MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B37M075S B 330 11 13 29 9 72 -35 20 20 MT2B347M075S B 340 11 13 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>									-		
MT2B907M050S B 900 40 40 33 27 108 -70 25 25 MT2B118M050S B 1100 40 40 30 27 108 -70 25 25 G3 V _{DC} AT 85 °C; 40 V _{DC} AT 125 °C MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B108M063S B 1000 32 32 31 30 120 -72 25 25 T5 V _{DC} AT 85 °C; 50 V _{DC} AT 125 °C MT2B337M075S B 330 11 13 29 9 72 -35 20 20 MT2B337M075S B 340 11 13 29 9 72 -36 20 20 MT2B337M075S B 390 12 13 <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				-	-						
MT2B118M050SB110040403027108-702525G3 V _{DC} AT 85 °C; 40 V _{DC} AT 125 °CMT2B757M063SB75040403327108-702425MT2B827M063SB82040403327108-702425MT2B108M063SB100032323130120-722525T5 V _{DC} AT 85 °C; 50 V _{DC} AT 125 °CMT2B337M075SB330111329972-352020MT2B337M075SB340111329972-352020MT2B337M075SB340111329972-352020MT2B397M075SB340111329972-362020MT2B397M075SB340111329972-362020MT2B397M075SB340111329972-362020MT2B397M075SB41017183027108-482122MT2B477M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB68037 <td>MT2B907M050S</td> <td>В</td> <td>900</td> <td>-</td> <td></td> <td>-</td> <td>27</td> <td>108</td> <td>-70</td> <td>25</td> <td>25</td>	MT2B907M050S	В	900	-		-	27	108	-70	25	25
MT2B757M063S B 750 40 40 33 27 108 -70 24 25 MT2B827M063S B 820 40 40 33 27 108 -70 24 25 MT2B108M063S B 1000 32 32 31 30 120 -72 25 25 T5 V _{DC} AT 85 °C; 50 V _{DC} AT 125 °C MT2B337M075S B 330 11 13 29 9 72 -35 20 20 MT2B337M075S B 340 11 13 29 9 72 -35 20 20 MT2B347M075S B 340 11 13 29 9 72 -35 20 20 MT2B417M075S B 340 11 13 29 9 72 -36 20 20 MT2B417M075S B 410 17 18 30 27 108 -48	MT2B118M050S	В	1100	40	40	30	27	108	-70		
MT2B827M063S MT2B108M063SB82040403327108-702425MT2B108M063SB100032323130120-722525 T5 VDC AT 85 °C; 50 VDC AT 125 °C MT2B337M075SB330111329972-352020MT2B347M075SB340111329972-352020MT2B397M075SB340111329972-362020MT2B397M075SB340111329972-362020MT2B397M075SB340111329972-362020MT2B417M075SB41017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B687M075SB68037373230120-602222MT2B687M075SB68037373230120-602222MT2B687M075SB68037373230120-602222MT2B687M075SB68037373230120-60				63 V _{DC} /	AT 85 °C; 40 V	/ _{DC} AT 125 °C					
MT2B108M063SB100032323130120-722525 75 VDC AT 85 °C; 50 VDC AT 125 °C MT2B337M075SB330111329972-352020MT2B347M075SB340111329972-352020MT2B397M075SB340111329972-362020MT2B397M075SB390121328972-362020MT2B417M075SB41017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB68037373230120-602222MT2B687M075SB68037373230120-602222MT2B677M075SB68037373230120-602222MT2B757M075SB75040403330120-682425	MT2B757M063S	В	750	40	40	33	27	108	-70	24	25
75 V _{DC} AT 85 °C; 50 V _{DC} AT 125 °C MT2B337M075S B 330 11 13 29 9 72 -35 20 20 MT2B347M075S B 340 11 13 29 9 72 -35 20 20 MT2B347M075S B 340 11 13 29 9 72 -35 20 20 MT2B397M075S B 390 12 13 28 9 72 -36 20 20 MT2B417M075S B 410 17 18 30 27 108 -48 21 22 MT2B507M075S B 500 17 18 30 27 108 -48 21 22 MT2B587M075S B 580 37 37 32 30 120 -60 22 22 MT2B607M075S B 680 37 37 32 30 120 -60											
MT2B337M075SB330111329972-352020MT2B347M075SB340111329972-352020MT2B397M075SB390121328972-362020MT2B417M075SB41017183027108-482122MT2B477M075SB47017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B677M075SB75040403330120-682425	MT2B108M063S	В	1000				30	120	-72	25	25
MT2B347M075SB340111329972-352020MT2B397M075SB390121328972-362020MT2B417M075SB41017183027108-482122MT2B477M075SB47017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B757M075SB75040403330120-682425						-					
MT2B397M075SB390121328972-362020MT2B417M075SB41017183027108-482122MT2B477M075SB47017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B677M075SB75040403330120-682425											
MT2B417M075SB41017183027108-482122MT2B477M075SB47017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B687M075SB68037373230120-602222MT2B757M075SB75040403330120-682425											
MT2B477M075SB47017183027108-482122MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B687M075SB68037373230120-602222MT2B757M075SB75040403330120-682425											
MT2B507M075SB50017183027108-482122MT2B587M075SB58037373230120-602222MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B687M075SB68037373230120-602222MT2B757M075SB75040403330120-682425											
MT2B607M075SB60037373230120-602222MT2B687M075SB68037373230120-602222MT2B757M075SB75040403330120-682425											
MT2B687M075S B 680 37 37 32 30 120 -60 22 22 MT2B757M075S B 750 40 40 33 30 120 -68 24 25											
MT2B757M075S B 750 40 40 33 30 120 -68 24 25											
$1101 V_{-1} A + XA^{+} V_{-1} A + 12A^{+} V_{-1}$	WIZD/3/WU/38	D	750				30	120	-00	24	20
100 V _{DC} AT 85 °C; 65 V _{DC} AT 125 °C MT2B277M100S B 270 10 12 30 9 72 -24 20 20		P	070	-			0	70	04	20	20
MT2B277M100SB270101230972-242020MT2B287M100SB280111336972-352020											
MT2B307M100S B 300 11 13 36 9 72 -35 20 20 MT2B307M100S B 300 11 13 36 9 72 -35 20 20											
125 V _{DC} AT 85 °C; 85 V _{DC} AT 125 °C		-					5			10	
MT2B227M125S B 220 8 11 42 9 72 -24 15 15	MT2B227M125S	В	220				9	72	-24	15	15
MT2B247M125S B 235 10 12 39 9 72 -24 18 18				-							

Revision: 28-Jan-14

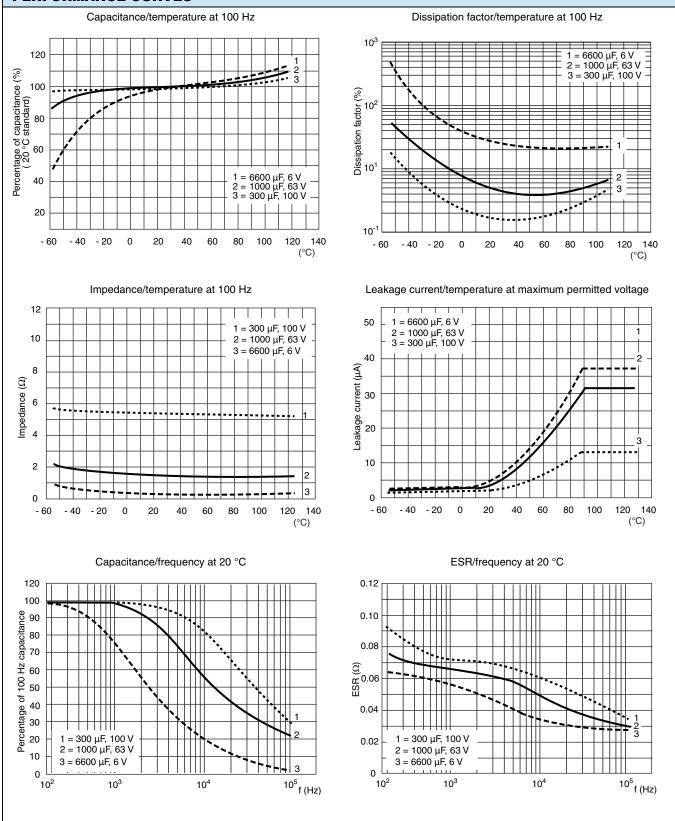
Document Number: 42097

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

Vishay

www.vishay.com

PERFORMANCE CURVES



Revision: 28-Jan-14

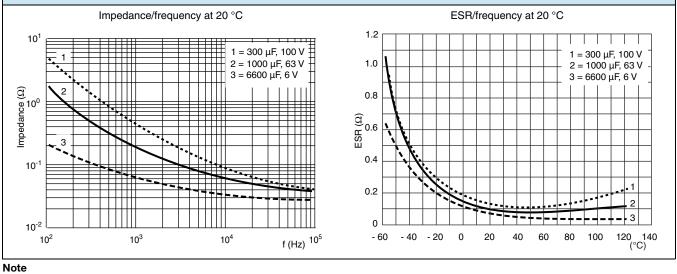
4 For technical questions, contact: <u>tantalum@vishav.com</u> Document Number: 42097

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000



Vishay





• All performance curves are provided from historic Arcotronics module series TM datasheet information

DSS REFERENCE	
VISHAY PART NUMBER	ARCOTRONICS PART NUMBER
MT2B227M125S	402/1/80115/011
MT2B247M125S	402/1/80115/012
MT2B277M100S	402/1/80114/013
MT2B287M100S	402/1/80114/014
MT2B307M100S	402/1/80114/015
MT2B337M075S	402/1/80113/016
MT2B347M075S	402/1/80113/017
MT2B397M075S	402/1/80113/018
MT2B417M075S	402/1/80113/019
MT2B477M075S	402/1/80113/020
MT2B507M075S	402/1/80113/021
MT2B587M075S	402/1/80113/022
MT2B607M075S	402/1/80113/023
MT2B687M075S	402/1/80113/024
MT2B757M075S	402/1/80113/025
MT2B757M063S	402/1/80112/025
MT2B827M063S	402/1/80112/026
MT2B907M050S	402/1/80111/027
MT2B108M063S	402/1/80112/028
MT2B118M050S	402/1/80111/029
MT2B128M040S	402/1/80110/030
MT2B138M040S	402/1/80110/031
MT2B148M030S	402/1/80109/032
MT2B158M025S	402/1/80108/033
MT2B178M030S	402/1/80109/034

Document Number: 42097



Vishay

CROSS REFERENCE	
VISHAY PART NUMBER	ARCOTRONICS PART NUMBER
MT2B168M025S	402/1/80108/035
MT2B208M025S	402/1/80108/036
MT2B228M025S	402/1/80108/037
MT2B248M020S	402/1/80107/038
MT2B248M025S	402/1/80108/039
MT2B278M020S	402/1/80107/040
MT2B268M020S	402/1/80107/041
MT2B338M016S	402/1/80106/042
MT2B348M015S	402/1/80105/043
MT2B398M010S	402/1/80104/044
MT2B418M010S	402/1/80104/045
MT2B478M010S	402/1/80104/046
MT2B508M008S	402/1/80103/047
MT2B518M010S	402/1/80104/048
MT2B568M6R3S	402/1/80102/049
MT2B608M006S	402/1/80101/050



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.