

## Product/Process Change Notification

### Polymer Capacitor – General Purpose Grade – Specification Update

<b>Date:</b> November 26,2025	<b>ID Number (MMDDYY):</b> PCN-112625-UMQ
<b>Affected Products</b>	YAGEO Part Number T520B477M2R5ATE014
<b>Change</b>	The maximum operational temperature and dissipation factor specification is being updated on YAGEO Part Number T520B477M2R5ATE014.  Maximum Temperature range: from 85°C to 105°C Dissipation Factor: from 8 to 10%
<b>Justification and Benefits</b>	The upgrade of the maximum operational temperature from 85°C to 105°C support the application trends.
<b>Effective Date and Identification</b>	There are no changes to the YAGEO part number. The effective date for the upgrade is PWC601 (week 1 – 2026). The online component specification will be updated according; a manual data sheet is attached to this specification.
<b>For General Information Contact</b>	<b>Ursula Quezada</b> Technical Marketing – Tantalum BG ph: 864-963-6463 E-mail: <a href="mailto:ursula.quezada@yageo.com">ursula.quezada@yageo.com</a>

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## T520B477M2R5ATE014 Datasheet

Aliases (TEPSLB20E477M148R)

### Specifications

<b>Operating Temperature</b>	-55° C to +105° C
<b>Rated Capacitance</b>	470µF at 120 Hz, 0.5Vrms+1.5Vdc
<b>Capacitance Tolerance</b>	±20% (M Tolerance)
<b>Rated Voltage (VDC)</b>	2.5 V
<b>Dissipation Factor (DF)</b>	10% at 120Hz, 0.5Vrms+1.5Vdc
<b>ESR</b>	14 mOhms, 100kHz
<b>Ripple Current</b>	2464 mArms max (300 - 500kHz +25°C)
<b>DC Leakage</b>	188 µA at +25°C
<b>Termination Finish</b>	100% Matte tin (Sn)-plated
<b>MSL</b>	3
<b>Endurance</b>	105°C, 1.0 Vr, 2000 Hrs
<b>Packaging</b>	T&R, 7" reel (2000 pcs)

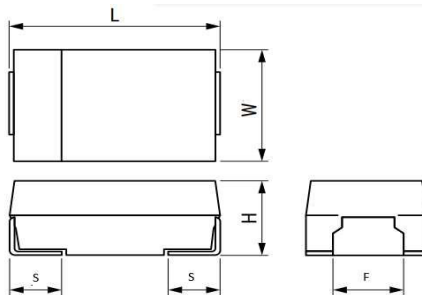
Marking reference



### Ordering Information - Part Number

T	520	B	477	M	2R5	A	T	E014
Capacitor Class	Series	Case Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Failure Rate/Design	Termination Finish	ESR
T = Tantalum	520 = Standard series	B	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	2R5 = 2.5V	A = N/A	T = 100% Matte tin (Sn)-plated	014 = 14mΩ

### Dimensions - Millimeters



EIA Code	3528-20
<b>L</b>	<b>3.5 ±0.2</b>
<b>W</b>	<b>2.8 ±0.2</b>
<b>H</b>	<b>1.9 ±0.1</b>
<b>F</b>	<b>2.2 ±0.1</b>
<b>S</b>	<b>0.8 ±0.3</b>