

Product/Process Change Notification

Polymer Capacitor – General Purpose Grade – Specification Update

Date: November 26,2025	ID Number (MMDDYY): PCN-112625-UMQ
Affected Products	YAGEO Part Number T520B477M2R5ATE014
Change	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%
Justification and Benefits	The upgrade of the maximum operational temperature from 85°C to 105°C support the application trends.
Effective Date and Identification	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.
For General Information Contact	Ursula Quezada Technical Marketing – Tantalum BG ph: 864-963-6463 E-mail: ursula.quezada@yageo.com

KEMET Electronics Corporation Business Confidential:

This notification is Business Confidential and should not be reproduced, copied, or shared with a third party without the express written permission of KEMET Electronics Corporation.

T520B477M2R5ATE014 Datasheet

Aliases (TEPSLB20E477M148R)

Specifications

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

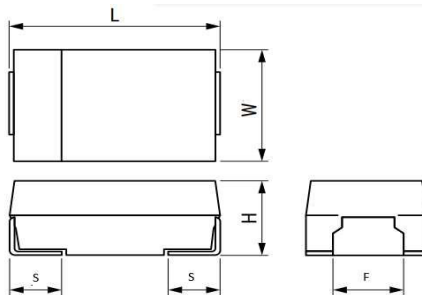
Marking reference



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
L	3.5 ±0.2
W	2.8 ±0.2
H	1.9 ±0.1
F	2.2 ±0.1
S	0.8 ±0.3