

CAPACITORS, LEADLESS SURFACE MOUNTED, TANTALUM, SOLID ELECTROLYTE, TYPE TES				327B																																																																																																																													
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																																																																																																																													
Generic ESCC 3012 Detail ESCC 3012/004	AVX Czech Republic sro Tantalum Division Lanskroun Czech Republic	Qualification	ESA	Oct 2013																																																																																																																													
Remarks:																																																																																																																																	
<p>Qualified Range:</p> <p>Variants 01 to 05. Case styles A (1206), B (1210), C (2312), D (2917), E (2917)</p> <table border="1"> <thead> <tr> <th rowspan="2">Capacitance C_n (μF)</th> <th colspan="8">Rated Voltage U_R</th> </tr> <tr> <th>6.3V</th> <th>10V</th> <th>12V</th> <th>16V</th> <th>20V</th> <th>25V</th> <th>35V</th> <th>50V</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A 3000</td> <td></td> <td>B 2000</td> </tr> <tr> <td>3.3</td> <td></td> <td></td> <td></td> <td></td> <td>A 2500</td> <td></td> <td>B 1000</td> <td>C 1000</td> </tr> <tr> <td>4.7</td> <td></td> <td></td> <td></td> <td>A 2000</td> <td></td> <td>B 1000</td> <td>C 600</td> <td>D 200</td> </tr> <tr> <td>10</td> <td></td> <td>A 1800</td> <td></td> <td></td> <td>B 1000</td> <td>C 600</td> <td>D 120</td> <td></td> </tr> <tr> <td>22</td> <td>A 900</td> <td></td> <td></td> <td>B 600</td> <td>C 400</td> <td></td> <td>D 100</td> <td></td> </tr> <tr> <td>33</td> <td></td> <td>B 650</td> <td></td> <td></td> <td>C 300</td> <td>D 65</td> <td>E 65</td> <td></td> </tr> <tr> <td>47</td> <td>B 500</td> <td></td> <td></td> <td>C 350</td> <td>D 55</td> <td>E 65</td> <td></td> <td></td> </tr> <tr> <td>100</td> <td></td> <td>C 200</td> <td></td> <td>D 55</td> <td>E 45</td> <td></td> <td></td> <td></td> </tr> <tr> <td>150</td> <td>C 300</td> <td>D 45</td> <td></td> <td>E 40</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>220</td> <td></td> <td>D 35</td> <td>E 35</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>330</td> <td>D 35</td> <td>E 35</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>470</td> <td>E 30</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Capacitance C_n (μF)	Rated Voltage U_R								6.3V	10V	12V	16V	20V	25V	35V	50V	1						A 3000		B 2000	3.3					A 2500		B 1000	C 1000	4.7				A 2000		B 1000	C 600	D 200	10		A 1800			B 1000	C 600	D 120		22	A 900			B 600	C 400		D 100		33		B 650			C 300	D 65	E 65		47	B 500			C 350	D 55	E 65			100		C 200		D 55	E 45				150	C 300	D 45		E 40					220		D 35	E 35						330	D 35	E 35							470	E 30							
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**european space agency
agence spatiale européenne**

Certificate of Qualification No. 327B

This is to certify that AVX Czech Republic, Lanskrone, Czech Republic has been qualified by ESA for the supply of Capacitors, Leadless Surfaced Mounted, Tantalum, Solid Electrolyte, Low ESR, based on Type TES for use in ESA space programmes, according to ESCC Generic Specification 3012 and associated Detail Specification 3012/004 as recommended by the Space Components Steering Board.

This certificate is valid until October 2019.

A handwritten signature in black ink, appearing to be 'E. D. A.' or similar, written over the printed name.

**Head of the Product Assurance
and Safety Department**

**Date
30 October 2017**