



European Space Agency  
Agence spatiale européenne

## Certificate of Qualification No. 110Prev1

This is to certify that AVX, St Apollinaire, France has been qualified by ESA for the supply of Capacitors, Ceramic, Fixed, Chip, Type II for use in ESA space programmes, according to ESCC Generic Specification 3009 and associated Detail Specifications (see QPL sheet) as recommended by the Space Components Steering Board.

This certificate is valid until June 2021.

A handwritten signature in black ink, appearing to read 'B. Schade', is positioned to the left of the digital signature information.

Digitally signed by  
Britta Schade  
Date: 2020.07.07  
14:24:05 +02'00'

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

**Date  
24 January 2020**

CAPACITORS, CERAMIC, FIXED, CHIP, TYPE II							110Prev1	
Procurement Specifications		Manufacturer		Nature of Approval		Supervising Authority	Initial Qualification Date	
Generic ESCC 3009		AVX St Apollinaire France		Qualification		CNES	Feb 1983	
Detail ESCC				Remarks:				
3009/008, 3009/009, 3009/010, 3009/011, 3009/023								
Qualified range:								
Style	Model	Detail Spec	Variants	Capacitance Range			Rated Voltage	Tolerance (+%)
0805	A_12G	3009/008	03, 06	820	to	47 000	25	5, 10, 20
				820	to	27 000	50	5, 10, 20
				820	to	10 000	100	5, 10, 20
0805	A612Z	3009/008	07, 10	2 700	to	150 000	25	5, 10, 20
				2 700	to	100 000	50	
				2 700	To	47 000	100	
				330	to	15 000	200	
1210	A_13G	3009/009	03, 06	3 900	to	220 000	25	5, 10, 20
				3 900	to	150 000	50	5, 10, 20
				3 900	to	47 000	100	5, 10, 20
1210	A613Z	3009/009	07, 10	3 900	to	470 000	25	5, 10, 20
				3 900	to	330 000	50	
				3 900	to	220 000	100	
				680	to	68 000	200	
1812	A_14G	3009/010	03, 06	6 800	to	470 000	25	5, 10, 20
				6 800	to	270 000	50	5, 10, 20
				6 800	to	82 000	100	5, 10, 20
1812	A614Z	3009/010	07, 10	22 000	to	1 000 000	25	5, 10, 20
				22 000	to	680 000	50	
				22 000	to	470 000	100	
				3 300	to	150 000	200	
2220	A_15G	3009/011	03, 06	18 000	to	1 000 000	25	5, 10, 20
				18 000	to	680 000	50	5, 10, 20
				18 000	to	180 000	100	5, 10, 20
2220	A615Z	3009/011	07, 10	100 000	to	2 200 000	25	5, 10, 20
				100 000	To	1 500 000	50	
				100 000	To	1 000 000	100	
				6 800	to	330 000	200	
1206	A_20G	3009/023	03, 06	2 200	to	100 000	25	5, 10, 20
				2 200	to	68 000	50	5, 10, 20
				2 200	to	22 000	100	5, 10, 20
1206	A620Z	3009/023	07, 10	3 300	to	220 000	25	5, 10, 20
				3 300	to	150 000	50	
				3 300	To	100 000	100	
				470	to	47 000	200	
Operating Temperature Range (°C), -55 to +125								