



European Space Agency  
Agence spatiale européenne

## Certificate of Qualification No. 109Prev1

This is to certify that AVX, St Apollinaire, France has been qualified by ESA for the supply of Capacitors, Ceramic, Fixed, Chip, Type I 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 brown 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  
14:23:38 +02'00'

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

**Date  
24 January 2020**

6.1.2 Ceramic Fixed Chip

CAPACITORS, CERAMIC, FIXED, CHIP, TYPE					109Prev1		
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:					
3009/003, 3009/004, 3009/005, 3009/006, 3009/022							
Qualified range:							
Variants 03 and 06 are qualified							
Style	Model	Detail Spec	Variants	Capacitance Range (pF)	Rated Voltage (V)	Tolerance (+%)	TC (ppm/°C)
0805	A_12C	3009/003	03, 06	4.7 to 9.1 10 to 1 500 1800 to 2200	50, 100 50, 100 50	0.5pF 1, 2, 5, 10 1, 2, 5, 10	±30
1206	A_20C	3009/022	03, 06	10 to 3 900 4700	50, 100 50	1, 2, 5, 10	±30
1210	A_13C	3009/004	03, 06	22 to 6 800 8 200 to 10 000	50, 100 50	1, 2, 5, 10	±30
1812	A_14C	3009/005	03, 06	100 to 15 000	50, 100	1, 2, 5, 10	±30
2220	A_15C	3009/006	03, 06	470 to 33 000	50, 100	1, 2, 5, 10	±30
Operating Temp. Range (°C), -55 to +125							