

CAPACITORS, CERAMIC, TYPE II, MULTIPLE LAYERS, BASED ON TYPES CNC 31 to 34, NE, PE AND PLE				315B
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3001 Detail ESCC 3001/037	Exxelia Technologies Chanteloup en Brie France	Qualification	CNES	Nov 2011
Remarks				
Qualified Range: Variants 01 to 16. 16V : 2.2 to 68 μF 25V: 1.2 to 39 μF E12 $\pm$10% tolerance DIL format with equal number of leads per side Lead material : type A with type 10 finish (electro-deposited 98% Ag min.) Operating Temperature Range ($^{\circ}$C): -55 to +125				

CAPACITORS, CERAMIC, TYPE II, 50V to 500V, BASED ON TYPES CNC53 to CNC56.				306C
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3001	Exxelia Technologies Chanteloup en Brie France	Qualification	CNES	Mar 2011
Detail ESCC 3001/038		Remarks:		
Qualified Range: Variants 01 to 04, 08 to 11, 15 to 18 and 22 to 25 are qualified All values 50V to 500V E12: ±10% tolerance Operating Temperature Range (°C): -55 to +125				

CAPACITORS, CERAMIC, FIXED, CHIP, TYPE I							323Brev1		
Procurement Specifications		Manufacturer		Nature of Approval		Supervising Authority		Initial Qualification Date	
Generic ESCC 3009		ExxeliaTechnologies Chanteloup en Brie France		Qualification		CNES		Oct 2012	
Detail ESCC				Remarks:					
3009/003, 3009/004, 3009/005, 3009/006, 3009/022, 3009/037, 3009/040, 3009/042									
Qualified range:									
Style	Model	Detail Spec	Variants	Capacitance Range			Rated Voltage	Tolerance (+%)	
0805	CEC202S CEC204S	3009/003 3009/040	06 02	10	to	2 700	16	<10pF 0.25—0.5 – 1 (pF) ≥10pF 1, 2, 5, 10	
				10	to	2 200	25		
				1	to	1 800	50		
				1	to	1 200	100		
1210	CEC402S CEC404S	3009/004 3009/040	06 04	10	to	15 000	16		
				10	to	13 000	25		
				10	to	12 000	50		
				10	To	6 800	100		
1812	CEC602S CEC604S	3009/005 3009/040	06 05	100	to	33 000	16		
				100	to	30 000	25		
				100	to	22 000	50		
				100	to	12 000	100		
2220	CEC702S CEC704S	3009/006 3009/040	06 06	470	to	68 000	16		
				470	to	56 000	25		
				470	to	47 000	50		
				470	to	27 000	100		
1206	CEC1202S CEC1204S	3009/022 3009/040	06 03	10	to	6 800	16		
				10	to	6 200	25		
				1	to	5 600	50		
				1	to	3 900	100		
0603	CEC1402S CEC1404S	3009/037 3009/040	06 01	10	to	1 000	16		
				10	to	680	25		
				1	to	560	50		
				1	to	330	100		
0402	CEC1902S CEC1904S	3009/042 3009/040	06 13	12	to	330	10		
				12	to	120	16		
				12	to	100	25		
Operating Temp. Range (°C), -55 to +125									

CAPACITORS, CERAMIC, FIXED, CHIP, TYPE II							324Brev1	
Procurement Specifications	Manufacturer		Nature of Approval	Supervising Authority		Initial Qualification Date		
Generic ESCC 3009 Detail ESCC	ExxeliaTechnologies Chanteloup en Brie France		Qualification	CNES		Oct 2012		
Remarks:								
3009/008, 3009/009, 3009/010, 3009/011, 3009/023, 3009/038, 3009/039, 3009/043								
Qualified range:								
Style	Model	Detail Spec	Variants	Capacitance Range			Rated Voltage	Tolerance (+%)
0805	CNC202S	3009/008	06	6 800	to	150 000	16	5, 10, 20
				6 800	to	100 000	25	
				100	to	47 000	50	
				68	to	10 000	100	
			07	6 800	to	220 000	16	5, 10, 20
				6 800	to	150 000	25	
				100	to	100 000	50	
				68	to	47 000	100	
0805	CNC204S	3009/039	02	6 800	to	150 000	16	5, 10, 20
				6 800	to	100 000	25	
				100	to	47 000	50	
				68	to	10 000	100	
			14	6 800	to	390 000	16	5, 10, 20
				6 800	to	150 000	25	
				100	to	100 000	50	
				68	to	47 000	100	
1210	CNC402S	3009/009	06	33 000	to	560 000	16	5, 10, 20
				33 000	to	330 000	25	
				2 200	to	220 000	50	
				2 200	to	56 000	100	
			07	33 000	to	820 000	16	5, 10, 20
				33 000	to	560 000	25	
				2 200	to	390 000	50	
				2 200	to	220 000	100	
	CNC404S	3009/039	04	33 000	to	560 000	16	5, 10, 20
				33 000	to	330 000	25	
				2 200	to	220 000	50	
				2 200	to	56 000	100	
			16	33 000	to	820 000	16	5, 10, 20
				33 000	to	560 000	25	
				2 200	to	390 000	50	
				2 200	to	220 000	100	
1812	CNC602S	3009/010	06	100 000	to	1 200 000	16	5, 10, 20
				100 000	to	680 000	25	
				3 900	to	470 000	50	
				3 900	to	120 000	100	

CAPACITORS, CERAMIC, FIXED, CHIP, TYPE II							324Brev1	
	CNC602S	3009/010	07	100 000 100 000 3 900 3 900	to to to to	1 800 000 1 200 000 820 000 470 000	16 25 50 100	5, 10, 20
	CNC604S	3009/039	05	100 000 100 000 3 900 3 900	to to to to	1 200 000 680 000 470 000 120 000	16 25 50 100	5, 10, 20
			17	100 000 100 000 3 900 3 900	to to to to	1 800 000 1 200 000 820 000 470 000	16 25 50 100	5, 10, 20
2220	CNC702S	3009/011	06	150 000 150 22 000 22 000	to to to to	2 700 000 1 500 000 1 000 000 270 000	16 25 50 100	5, 10, 20
			07	150 000 150 000 22 000 22 000	to to to to	3 900 000 2 200 000 1 800 000 1 000 000	16 25 50 100	5, 10, 20
	CNC704S	3009/039	06	150 000 150 22 000 22 000	to to to to	2 700 000 1 500 000 1 000 000 270 000	16 25 50 100	5, 10, 20
			18	150 000 150 000 22 000 22 000	to to to to	3 900 000 2 200 000 1 800 000 1 000 000	16 25 50 100	5, 10, 20
1206	CNC1202S	3009/023	06	10 000 10 000 470 470	to to to to	270 000 180 000 82 000 27 000	16 25 50 100	5, 10, 20
			07	10 000 10 000 470 470	to to to to	390 000 270 000 180 000 120 000	16 25 50 100	5, 10, 20
	CNC1204S	3009/039	03	10 000 10 000 470 470	to to to to	270 000 180 000 82 000 27 000	16 25 50 100	5, 10, 20
			15	10 000 10 000 470 470	to to to to	1 000 000 270 000 180 000 120 000	16 25 50 100	5, 10, 20
0603	CNC1402S	3009/038	06	390 390 10 10	to to to to	33 000 22 000 10 000 2 700	16 25 50 100	5, 10, 20
			07	390 390 10 10	to to to to	39 000 33 000 22 000 12 000	16 25 50 100	5, 10, 20
	CNC1404S	3009/039	01	390 390	to to	33 000 22 000	16 25	5, 10, 20

CAPACITORS, CERAMIC, FIXED, CHIP, TYPE II							324Brev1	
				10 10	to to	10 000 2 700	50 100	
			13	390 390 10 10	to to to to	100 000 33 000 22 000 12 000	16 25 50 100	5, 10, 20
0402	CNC1902S	3009/043	06	68 68 68	To To to	12 000 8 200 5 600	10 16 25	5, 10, 20
	CNC1904S	3009/039	25	68 68 68	To To to	12 000 8 200 5 600	10 16 25	
Operating Temperature Range (°C), -55 to +125								

6.1.4 Fixed Film

CAPACITORS, FIXED, RECONSTITUTED MICA, HIGH VOLTAGE, BASED ON TYPE HT86PS				251H																																																		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																																																		
Generic ESCC 3006 Detail ESCC 3006/022	Exxelia Technologies Chanteloup en Brie France	Qualification	CNES	Aug 1998																																																		
Remarks:																																																						
Qualified Range: All values defined by the ESCC Detail Specification <table> <tr> <th colspan="3">Capacitance Range (nF)</th><th>Tol. (±%)</th><th>UR(kV)</th></tr> <tr> <td>33</td><td>to</td><td>2 200</td><td>10</td><td>1.5</td></tr> <tr> <td>15</td><td>to</td><td>1 500</td><td>10</td><td>2.5</td></tr> <tr> <td>15</td><td>to</td><td>1 000</td><td>10</td><td>3.5</td></tr> <tr> <td>6.8</td><td>to</td><td>470</td><td>10</td><td>5.0</td></tr> <tr> <td>2.2</td><td>to</td><td>220</td><td>10</td><td>7.5</td></tr> <tr> <td>1.0</td><td>to</td><td>100</td><td>10</td><td>10.0</td></tr> <tr> <td>3.3</td><td>to</td><td>68</td><td>10</td><td>12.5</td></tr> <tr> <td>1.5</td><td>to</td><td>33</td><td>10</td><td>15.0</td></tr> <tr> <td>0.68</td><td>to</td><td>15</td><td>10</td><td>20.0</td></tr> </table> Operating Temperature Range, (°C): -55 to +125					Capacitance Range (nF)			Tol. (±%)	UR(kV)	33	to	2 200	10	1.5	15	to	1 500	10	2.5	15	to	1 000	10	3.5	6.8	to	470	10	5.0	2.2	to	220	10	7.5	1.0	to	100	10	10.0	3.3	to	68	10	12.5	1.5	to	33	10	15.0	0.68	to	15	10	20.0
Capacitance Range (nF)			Tol. (±%)	UR(kV)																																																		
33	to	2 200	10	1.5																																																		
15	to	1 500	10	2.5																																																		
15	to	1 000	10	3.5																																																		
6.8	to	470	10	5.0																																																		
2.2	to	220	10	7.5																																																		
1.0	to	100	10	10.0																																																		
3.3	to	68	10	12.5																																																		
1.5	to	33	10	15.0																																																		
0.68	to	15	10	20.0																																																		

6.5 FILTERS (05)

6.5.1 Feedthrough

FILTERS, PI-, C-, AND L- TYPES, FEEDTHROUGH, ELECTROMAGNETIC INTERFERENCE SUPPRESSION, HERMETICALLY AND NON-HERMETICALLY SEALED, BASED ON TYPES SFC, SFL AND SFP				252H
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic	EXXELIA Technologies Chanteloup en Brie France	Qualification	CNES	Aug 1998
ESCC 3008 Detail ESCC		Remarks As a result of NCCS No. 2CETE704, under investigation, the Qualification of SFC filters rated 200V is suspended temporarily.		
3008/014, 3008/020, 3008/021, 3008/025, 3008/026, 3008/027, 3008/028, 3008/029, 3008/030, 3008/031, 3008/032, 3008/033				
Qualified range: All Variants are qualified except SFC filters rated 200V as specified in ESCC 3008/020, /026, /027, /031, /032, /033, whose qualification status is suspended from 25-May-2018.				
Operating Temperature Range (°C): -55 to +125				