

Types covered by similarity: E6 ±20% tolerance		Remarks:		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Date
Generic ESCC 3001 Detail ESCC 3001/037	EUROFARAD Chanteloup en Brie France	Qualification Extension	CNES CNES	Nov 2011 Oct. 2013
Characteristics: E12 ±10% tolerance Qualified Range: Variants 01 to 16. 16V : 2.2 to 68 µF 25V: 1.2 to 39 µF 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 (°C): -55 to +125				
	CAPACITORS, CERAMIC, TYPE II, MULTIPLE LAYERS, BASED ON TYPES CNC 31 to 34, NE, PE AND PLE	Current Validity of Qualification		Page
		Certificate 315 A	Valid Until November 2015	01-01 005-1

Types covered by similarity: E6: ±20% tolerance		Remarks:		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Date
Generic ESCC 3001 Detail ESCC 3001/038	EUROFARAD Chanteloup en Brie France	Qualification Extension	CNES CNES	Mar 2011 Apr 2013
Characteristics: 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, TYPE II, 50V TO 500V, BASED ON TYPES CNC53 TO CNC56	Current Validity of Qualification		Page
		Certificate 306 A	Valid Until March 2015	01-01 007

Types covered by similarity:		Remarks:				
Tolerance (±): <10pF; 0.25– 0.5-1pF; ≥10pF; 1, 2, 5, 10%						
Procurement Specifications		Manufacturer	Nature of Approval	Supervising Authority	Date	
Generic ESCC 3009 Detail ESCC 3009/003 3009/004 3009/005 3009/006 3009/022 3009/037		EUROFARAD Chanteloup en Brie France	Qualification	CNES	Oct 2012	
Characteristics: Variant 06 is qualified See Table on next page						
Operating Temp. Range (°C), -55 to +125						
		CAPACITORS, CERAMIC, FIXED, CHIP, TYPE I		Current Validity of Qualification		Page
				Certificate	Valid Until	01-02
				323	October 2014	001-2A

Characteristics:

Style	Model	Detail Spec.	Variants	Capacitance Range (pF)			Rated Volt. (V)	Tol. (±%)
0805	CEC2S	3009/003	06	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	
	CEC4S	3009/004	06	10	to	15 000	16	
				10	to	13 000	25	
				10	to	12 000	50	
				10	To	6 800	100	
1812	CEC6S	3009/005	06	100	to	33 000	16	
				100	to	30 000	25	
				100	to	22 000	50	
				100	to	12 000	100	
2220	CEC7S	3009/006	06	470	to	68 000	16	
				470	to	56 000	25	
				470	to	47 000	50	
				470	to	27 000	100	
1206	CEC12S	3009/022	06	10	to	6 800	16	
				10	to	6 200	25	
				1	to	5 600	50	
				1	to	3 900	100	
0603	CEC14S	3009/037	06	10	to	1 000	16	
				10	to	680	25	
				1	to	560	50	
				1	to	330	100	



CAPACITORS,
CERAMIC, FIXED,
CHIP, TYPE I

Current Validity of Qualification

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Types covered by similarity:							Remarks:			
Tolerance (±%): 10, 20%										
Procurement Specifications					Manufacturer		Nature of Approval		Supervising Authority	Date
Generic ESCC 3009					EUROFARAD Chanteloup en Brie France		Qualification		CNES	Oct 2012
Detail ESCC 3009/008 3009/009										
3009/010 3009/011										
3009/023 3009/038										
3009/039										
Characteristics:	Style	Model	Detail Spec.	Variants	Capacitance Range (pF)		Rated Volt. (V)	Tol. (±%)		
	0805	CNC2S	3009/008	06	6 800 to 150 000 6 800 to 100 000 100 to 47 000 68 to 10 000		16 25 50 100	5, 10, 20		
				07	6 800 to 220 000 6 800 to 150 000 100 to 100 000 68 to 47 000		16 25 50 100	5, 10, 20		
Table continues on next page										
Operating Temperature Range (°C), -55 to +125										
		CAPACITORS, CERAMIC, FIXED, CHIP, TYPE II					Current Validity of Qualification			Page
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Characteristics:	Style	Model	Detail Spec.	Variants	Capacitance Range (pF)			Rated Volt. (V)	Tol. (±%)
	0805	CNC2 04S	3009/039	02	6 800 6 800 100 68	to to to to	150 000 100 000 47 000 10 000	16 25 50 100	5, 10, 20
				14	6 800 6 800 100 68	to to to to	390 000 150 000 100 000 47 000	16 25 50 100	5, 10, 20
	1210	CNC4S	3009/009	06	33 000 33 000 2 200	to to to	560 000 330 000 220 000	16 25 50	5, 10, 20
		CNC4 04S	3009/039	04	2 200	to	56 000	100	
		CNC4S	3009/009	07	33 000 33 000 2 200	to to to	820 000 560 000 390 000	16 25 50	5, 10, 20
		CNC4 04S	3009/039	16	2 200	to	220 000	100	
	1812	CNC6S	3009/010	06	100 000 100 000 3 900	to to to	1 200 000 680 000 470 000	16 25 50	5, 10, 20
		CNC6 04S	3009/039	05	3 900	to	120 000	100	
		CNC6S	3009/010	07	100 000 100 000 3 900	to to to	1 800 000 1 200 000 820 000	16 25 50	5, 10, 20
		CNC6 04S	3009/039	17	3 900	to	470 000	100	
	2220	CNC7S	3009/011	06	150 000 150 22 000	to to to	2 700 000 1 500 000 1 000 000	16 25 50	5, 10, 20
		CNC7 04S	3009/039	06	22 000	to	270 000	100	
		CNC7S	3009/011	07	150 000 150 000 22 000	to to to	3 900 000 2 200 000 1 800 000	16 25 50	5, 10, 20
		CNC7 04S	3009/039	18	22 000	to	1 000 000	100	
	1206	CNC12S	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



CAPACITORS,
CERAMIC, FIXED,
CHIP, TYPE II

Current Validity of Qualification

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Characteristics:

Style	Model	Detail Spec.	Variants	Capacitance Range (pF)			Rated Volt. (V)	Tol. (±%)
1206	CNC12 04S	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	CNC14S	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
0603	CNC14 04S	3009/039	01	390 390 10 10	to to to to	33 000 22 000 10 000 2 700	16 25 50 100	5, 10, 20
			13	390 390 10 10	to to to to	100 000 33 000 22 000 12 000	16 25 50 100	5, 10, 20



CAPACITORS,
CERAMIC, FIXED,
CHIP, TYPE II

Current Validity of Qualification

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Types covered by similarity: 20% tolerance by variant where applicable					Remarks:																																																					
Procurement Specifications				Manufacturer		Nature of Approval		Supervising Authority	Date																																																	
Generic ESCC 3006 Detail ESCC 3006/022				EUROFARAD Chanteloup en Brie France		Qualification	CNES	Aug 1998																																																		
Characteristics: Operating Temperature Range, (°C): -55 to +125 All values defined by the ESCC Detail Specification <table><tr><th colspan="3">Capacitance Range (nF)</th><th>Tol. (±%)</th><th>U_R(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>						Capacitance Range (nF)			Tol. (±%)	U _R (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	Extension	CNES	Jan 2001
						Capacitance Range (nF)			Tol. (±%)	U _R (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																																																
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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																																																						
Extension	CNES	Aug 2003																																																								
Extension	CNES	Dec 2005																																																								
Extension	CNES	Apr 2008																																																								
Extension	CNES	Oct 2010																																																								
Extension	CNES	Aug 2012																																																								
					CAPACITORS, FIXED, RECONSTITUTED MICA, HIGH VOLTAGE, BASED ON TYPE HT86PS				Current Validity of Qualification		Page																																															
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					251 F		April 2014		001-1																																																	

Types covered by similarity:		Remarks:			
Procurement Specifications		Manufacturer	Nature of Approval	Supervising Authority	Date
Generic ESCC 3008		EUROFARAD Chanteloup en Brie France	Qualification	CNES	Aug 1998
Detail ESCC Please refer to the next page			Extension	CNES	Apr 2001
			Extension	CNES	Nov 2003
			Extension	CNES	Mar 2006
			Extension	CNES	Jun 2008
			Extension	CNES	Apr 2011
Characteristics: All variants specified in the Detail Specifications are qualified. Operating Temperature Range (°C): -55 to +125			Extension	CNES	Aug 2012
	CAPACITOR FILTERS, PI-, C-, AND L– TYPES, FEEDTHROUGH, ELECTROMAGNETIC INTERFERENCE SUPPRESSION, HERMETICALLY AND NON-HERMETICALLY SEALED, BASED ON TYPES SFC, SFL AND SFP	Current Validity of Qualification			Page
		Certificate	Valid Until	05-01	
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Types covered by certificate:

Domain	Style	Detail Specification	Variants	Capacitance Range (nF)	Rated Current (A)	Rated Voltage (V)
SFC, Hermetic, Glass Fill	SFC 060	3008/026	01 to 06	0.68 to 220	10	25 to 200
	SFC 100	3008/027	01 to 06	1.0 to 1000	10	25 to 200
SFP, Hermetic, Glass Fill	SFP 060	3008/021	01 to 14	2.4 to 89.6	10	35 to 500
	SFP 100	3008/028	01 to 06	0.16 to 1 312.0	10	50 to 300
SFL, Hermetic, Glass Fill	SFL 100	3008/029	01 to 48	17.6 to 1 600	5, 10, 15	40 to 300
Capacitance Range (pF)						
SFC, Non-Hermetic, Resin Fill	SFC 035	3008/031	01 to 06	470 to 22 000	10	25 to 200
	SFC 040	3008/032	01 to 12	470 to 22 000	10	25 to 200
	SFC 060	3008/033	01 to 12	680 to 220 000	10	25 to 200
SFP, Non-Hermetic, Resin Fill	SFP 035	3008/025	01 to 20	2 400 to 35 200	10	35 to 200
	SFP 040	3008/014	01 to 40	750 to 44 800	10 (DC 7 LF)	70 to 250
	SFP 060	3008/030	01 to 28	2 400 to 89 600	10	35 to 500
Capacitance Range (pF)						
SFC, Mixed fill, for soldering	SFC 030V	3008/020	01 to 12	470 to 22 000	1.0 to 5.0	25 to 200



CAPACITOR FILTERS, PI-, C-, AND L- TYPES, FEEDTHROUGH,
ELECTROMAGNETIC INTERFERENCE SUPPRESSION,
HERMETICALLY AND NON-HERMETICALLY SEALED,
BASED ON TYPES SFC, SFL AND SFP

Current Validity of Qualification

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