

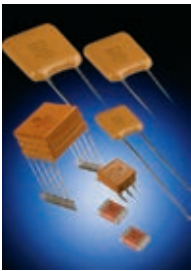


ESCC QUALIFIED PARTS LIST

FEBRUARY 2016

CAPACITORS

Cert.	Type Designation	Manufacturer
	Ceramic, Fixed	
231 J	Type II, High Capacitance	AVX (N.I.)
315 B	Type II, Types CNC 31 to CNC 34	Exxelia Technologies
262 F	Type II, High Voltage	AVX (N.I.)
306 B	Type II, Types CNC 53 to CNC 56	Exxelia Technologies
	Ceramic, Fixed, Chip	
109 M	Type I	AVX/TPC
323 A	Type I, Types CEC2S to CEC14S	Exxelia Technologies
110 M	Type II	AVX/TPC
324 A	Type II, Types CNC2S to CNC14S	Exxelia Technologies
264 F	Type II, High Voltage	AVX (N.I.)
331	Type II, Types TTP 0603, 0805, 1206, 1210, 1812	AVX (N.I.)
	Tantalum, (Solid), Fixed, Electrolytic	
196 F	Type TAJ	AVX (CZ)
327 A	Low ESR, Type TES	AVX (CZ)
	Fixed, Film	
251 G	Type HT86PS, High Voltage	Exxelia Technologies
270 F	Type PM94S	Exxelia Technologies
	Semiconductor	
286 C	Type 101M, 201M, 400M and 401M	Cobham Microwave



Stacked Ceramics
3001030/3001034
Source: AVX N.I.



Type TAJ
Source: AVX CZ

CONNECTORS

Cert.	Type Designation	Manufacturer
	Multipin, Solder Contacts	
71 Q	D*M Series, Rectangular	C&K COMPONENTS
155 L	D*M Series, Rectangular	SOURIAU
	Multipin, Crimp Contacts	
72 Q	D*MA Series, Rectangular	C&K COMPONENTS
156 K	D*MA Series, Rectangular	SOURIAU
25 P	DBAS Series, Circular	Deutsch
220 G	Series I, Circular, Crimp	SOURIAU
221 G	Series II, Circular, Crimp	SOURIAU
222 G	Series III, Circular, Miniature	SOURIAU
223 F	Series III, Hermetic	SOURIAU
288 C	ACB1 Series	Axon' Cables
337	Fast-locking Screw Lock Assemblies	C&K COMPONENTS
	Printed Circuit Board	
99 N	HE 801 Series	Smiths Connectors Hypertac
149 L	KMC Series	Smiths Connectors Hypertac
250 G	MHD Series	Smiths Connectors Hypertac
281 D	IHD INTERPOSER	Smiths Connectors Hypertac
	R.F. Coaxial	
68 N	SMA Series	Radiall
283 D	SMA 2.9	Radiall
329	SMA, SMA 2.92, TNC and SMP	Rosenberger
	Micro-miniature, Crimp Contacts	
140 N Rev 1	MDM Series, Rectangular	C&K COMPONENTS
141 N	MTB Series, Rectangular	C&K COMPONENTS
290 C	MDMA, Rectangular	C&K COMPONENTS
301 B	8MCG, Rectangular	SOURIAU



KMC Series
Source: Smiths Connectors Hypertac



SMA DC-22 GHz
Course: RADIALL



32s107-302n5-a
Source: Rosenberger

CRYSTALS

Cert.	Type Designation	Manufacturer
	Crystals	
33 M	TO-5 Can	RAKON
333	TO-5 Can	RAKON
308 B	TO-5 Can	KVG
34 M	TO-8 Can	RAKON
334	TO-8 Can	RAKON
309 B	TO-8 Can	KVG



TO8 – TO5
Source: KVG

DIODES

Cert.	Type Designation	Manufacturer
	Switching	
311 B	Types 1N6640U and 1N6642U	STMicroelectronics
316 A	Types BAY6642	Infineon
	Power Rectifier	
297 B	Types 1N5806U and 1N5811U	STMicroelectronics
302 B	Types 1N5819U and 1N5822U	STMicroelectronics
272 F rev1	Type STPS20100	STMicroelectronics
274 E rev1	Types BYW-81, BYV52, BYV54	STMicroelectronics
	RF/Microwave, Silicon Schottky	
227 E	Schottky, BAS 70	Infineon
	RF/Microwave, Varactors	
200 G	PIN and Varactors	API Technologies - RF2M Division
225 F	Multiplier and PIN, DH 2xx and DH 50xxx	Cobham Microwave
273 E	Varactor, Tuning, DH 76xxx	Cobham Microwave
	RF/Microwave, PIN	
224 F	PIN, BXY 42	Infineon
236 F	PIN, BXY 43 and 44	Infineon



LCC2B_510101311
Source: STMicroelectronics



M208A
Source: Cobham Microwave

FILTERS

Cert.	Type Designation	Manufacturer
	Feedthrough	
252 G	Types SFC, SFL, SFP	Exxelias Technologies
	SAW	
313 A	SAW filters (transversal band pass/resonator/notch/low loss impedance element)	Kongsberg Norspace



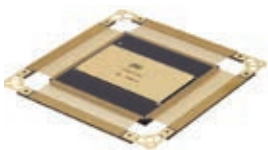
Type MGA-S
Source: Schurter AG

FUSES

Cert.	Type Designation	Manufacturer
	Thin Film	
284 C	Type MGA-S	Schurter
336	Type HCSF	Schurter

MICROCIRCUITS

Cert.	Type Designation	Manufacturer
	Digital C-MOS	
73 Q	4000 B Series	ST Microelectronics
190 L	54HCMOS Series	ST Microelectronics
278 D	Integrated Circuits, Silicon Monolithic, CMOS Gate/ Embedded Array based on Type MH1RT	ATMEL
312 A	Integrated Circuits, Silicon, Monolithic, CMOS, Cell-Based Array, based on Type ATC18RHA	ATMEL
312 A	Integrated Circuits, Silicon, 32-bit SPARC Processor, based on Type AT697F	ATMEL
312 A	Integrated Circuits, Silicon, Monolithic, CMOS Digital, Field Programmable Gate Array, 280000 Gates, based on Type ATF280F	ATMEL



Source: ATMEL

RELAYS

Cert.	Type Designation	Manufacturer
	Non-Latching, 28Vdc Contact Rating	
102 G	Type T**	REL STPI
02 M	Type GP5	LEACH
205 E	Type E 215	REL STPI
318 A	Type M300	LEACH Sarralbe
	Latching, 28Vdc Contact Rating	
88 H	Type TL	REL STPI
13 M	Type GP2	LEACH
98 F	Type EL415	REL STPI
317 A	Type M402	LEACH Sarralbe
167 F	Type EL215	REL STPI
310 B	Type M302	LEACH Sarralbe
240 F	Type D	LEACH Niort
	Latching, 50Vdc Contact Rating	
93 L	Type GP250	LEACH



Non-Latching GP5
Source: LEACH



(Source ESA-REL-STPI)

INDUCTORS

Cert.	Type Designation	Manufacturer
	Fixed, Rf	
241 G	Types MSCl 10K, 12K, 20K and H01	Microspire
	Power	
276 E	Types SESl and CMC	Microspire

WIRES AND CABLES

Cert.	Type Designation	Manufacturer
	Coaxial, RF, Flexible	
24 R	PTFE/Polyimide, Type 50 CIS	Nexans
255 H	Coaxial, Triaxial, Balanced Shielded Line	Gore
298 C	Coaxial, Triaxial, Balanced Shielded Line	Axon' Cable
291 C	Symmetric, Quad, Spacewire	Axon' Cable
304 B	Symmetric, Quad, Spacewire	Gore
335	Symmetric, Quad, Spacewire	Axon' Cable

	Low Frequency	
07 Q	Polyimide, Types FA-3901-1, FA 3901-2	Draka Fileca
09 Q	Polyimide, Types 1871-1872	Nexans
132 N	Polyimide, Types 3901002**B	Axon' Cable
08 Q	PTFE, Types MTV-BTV	Nexans
292 C	PTFE/Polyimide, Types 3901013**B	Axon' Cable
138 L	Polyimide, Type SPC	Gore
219 K	Polyimide, Types SPL	Gore
268 F	Polyimide, Types 3901019**B	Axon' Cable
295 C	Polyimide, Types 3901019	Leoni
159 M	Crosslinked PTFE, Type Silver-Plated Copper	Tyco Electronics
267 G	Crosslinked PTFE, Type Silver-Plated Copper	Axon' Cable
215 K	PTFE, Polyimide / PFA Insulated, Type SPP	Gore
216 J	PTFE, Polyimide / PFA Insulated, Shielded, Type SPM	Gore
294 C	PTFE, Polyimide/PFA Insulated, Shielded, Type 3901018	Leoni
300 C	PTFE, Polyimide / PFA Insulated, Shielded, Type SPM	Axon' Cable
229 J	Polyimide, Insulated, Shielded, Type SPLD, Drain Wire	Gore
293 C	Polyimide, Insulated, Shielded, Drain Wire, Types 3901021**B	Axon' Cable
296 C	Polyimide, Insulated, Shielded, Drain Wire, Type 3901021	Leoni
257 G	Crosslinked, Modified ETFE, Type Silver-Plated Copper, Lightweight	Tyco Electronics
299 C	Fluoropolymer, Lightweight, Based on Type CSWL	Axon' Cable
305 B	Fluoropolymer, Lightweight, Based on Type CSWL	Gore
328	Extra Thin, Fluorthermoplastic / Polyimide, based on Type CSC	Gore



ESA Cables
Source: Draka Felica



QS Space Grade
Source: Leoni



ESCC 3901/025
Source: W.L. GORE & ASSOCIATES GmbH

MISCELLANEOUS

Cert.	Type Designation	Manufacturer
	Switches	
275 E	Thermostatic, Bimetallic	COMEPA
	Passive Devices, RF	
185 G	Coaxial Loads, 0 to 22 GHz	Radiall
178 H	Attenuators, Type R413	Radiall



SWITCHES T45
Source: COMEPA

Process Capability Approval
HYBRIDS

PCA Cert.	Type Designation	Manufacturer
	Hybrid	
332	High Frequency Hybrid Line	Thales Alenia Space



Attenuators, SMA DC-22GHz
Source: Radiall

THERMISTORS

Cert.	Type Designation	Manufacturer
	NTC	
266 H	Types G15K4D489 and *K3A35*	TE Connectivity (formerly MEAS)



ESCC 4006/014
Source: TE Connectivity

TRANSISTORS

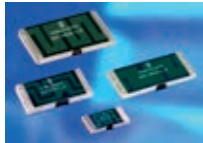
Cert.	Type Designation	Manufacturer
	Low Power, NPN	
233 K rev 3	Types NPN	STMicroelectronics
	Low Power, PNP	
234 K rev 3	Types PNP	STMicroelectronics
	MOSFET, Power, N-Channel	
303 B	Types STRH100N10, STRH40N6, SRH100N6 and STRH8N10	STMicroelectronics
319 B	Type BUY**CS***	Infineon
	MOSFET, Power, P-Channel	
326 A Rev 1	Type STRH40P10	STMicroelectronics
	RF/Microwave, NPN, Low Power, Low Noise	
230 F	Types BFY193	Infineon
245 F	Types BFY405, -420 and -450	Infineon
320 A	Type BFY640	Infineon
321 A	Types BFY640B and BFY650B	Infineon
322 A	Type BFY740B	Infineon
	Microwave, Gallium Arsenide	
213 F	Types CFY67, High Electron Mobility, Low Noise	Infineon



25CS54AR
Source: Infineon Technologies AG

RESISTORS

Cert.	Type Designation	Manufacturer
	Shunts	
285 C	Types SMV-PW and SM*-PT	Isabellenhütte
	Fixed film	
256 H	Surface Mount, Type MS1	Vishay Electronic GmbH
289 C	Surface Mount, Type TNPS	Vishay Electronic GmbH
	Chip	
287 D	Type PHR; PFRR; PRAHR/ CNWHR	Vishay S.A., Sfernice
314 B	Type CHP	Vishay S.A., Sfernice
287 D	Thin Film Technology for Chip, Wraparound, Single and Network Resistors, Fixed, Based on Types P for Single Chip, PRA and CNW for Resistor Networks	Vishay S.A., Sfernice
	Flexible foil heaters	
184 L	Single & Double Layer	IRCA
325 A	Single & Double Layer	Minco
330	Single & Double Layer	IRCA



SMx -FAMILY
Source: Isabellenhutte



CHPHR
Source: Vishay (FR)



MINCO 14490j
Source: Minco



Flexible foil heaters
Source: IRCA



<https://escies.org> website offers you our full list of Qualified Manufacturers, the Qualified Parts List, all ESCC Specifications, the ESA Radiation Database, the European Preferred Parts List, ESA Components Technology Activities, Component Conference announcements and proceedings and MUCH MORE.

Contact

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