



SOLAR ORBITER

RPW Instrument

RPW

Radio Plasma Waves

LFR EEE Part List

RPW-MEB-LFR-DCL-00009-LPP

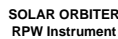
Issue 3 Revision 10

Classification

Public

Restricted

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RPIW-XXX-XXX-XXX-XXX-XXXXX-XXXDRAFT#100

THIS DOCUMENT PROVIDES COMPONENT LIST FOR LFR BOARD.
FOLLOWING RULES AND ASSUMPTIONS APPLIES:

- THE LAST SHEET IS THE ONLY APPLICABLE (HIGHER ISSUE/HIGHER REVISION)
- FM PARTS TABLE GIVES PARTS REFERENCES, DETAILS AND QUANTITIES THAT ARE NEEDED FOR EM, EQM, FM AND FS BOARDS.
- EQM/PROTO PARTS TABLE GIVES PARTS REFERENCES, DETAILS, AND QUANTITIES THAT ARE NEEDED FOR EM, EQM, FM AND FS BOARDS.
- LOWER PARTS QUALITY LEVELS (FOR EM BOARD) ARE NOT MANAGED INSIDE THIS DOCUMENT.

EXAMPLE:

LFR EQM BOARD WILL USE FM PARTS LEVEL CONNECTORS. THUS QUANTITIES ARE NOT NULL IN THE FM PARTS TABLE.
LFR EM BOARD WILL USE FM PARTS LEVEL LDOs. THUS QUANTITIES ARE NOT NULL IN THE FM PARTS TABLE.

Family code	Crate Code (As-Built)	Item number	Commercial equipment designation / Description	Part Designation	4					5		6	7	8	9	10	11		12	13				14	15	16	17					18	19	20								
					Value or range of values					Package							Supplier Quality level			Type, form and details							Part Features															
					4.1		4.2		4.3	5.1							5.2			11.1	11.2	13.1					13.2	13.3	13.4	17.1					17.5							
					Value	Rated voltage	Tolerance	Non Operating temp range	Operating temp. Range	Footprint Case Size	Lead Finish						Manufacturer 1) Name 2) Country	Generic procurement specification		Detail procurement specification	Procurement specification identifier	Procurement agent name	Quality level				Lot test (SAT/QC)	Space qualification class	RVT (Y/N)	TD	SEE				DPA (Y/N)	PAID or Justification Document (reference if applicable)	Other approval status (QML/SCC/PL)	Data code (if applicable, for ASCL)	EM	ESD	FM PS	Attention (ALL BOARDS)
FM PARTS Quality																																										
17 - Components																																										
01	02	N/A	01.003.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 129	30909239C20VJC	2.3W	50V	+/-0% +/-30ppm/C	-55°C to 125 °C	-55°C to 125 °C	1206	Variant 06: NPO Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090923	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 109K	N/A	0	16	30	7	35	24w	N	MOD 50 parts							
01	02	N/A	01.003.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 182	30909306C270JJC	270pF	50V	+/-0% +/-30ppm/C	-55°C to 125 °C	-55°C to 125 °C	0805	Variant 06: NPO Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090903	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 109K	N/A	0	8	16	5	29	24w	N	MOD 50 parts							
01	02	N/A	01.004.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 1210	30909406C025JFC	5.6pF	50V	+/-0% +/-30ppm/C	-55°C to 125 °C	-55°C to 125 °C	1210	Variant 06: NPO Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090904	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 109K	N/A	0	8	16	5	29	24w	N	MOD 50 parts							
01	02	N/A	01.005.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 0805	30909087C10AJA	100nF	25V	+/-0% +/-20% (temp)	-55°C to 125 °C	-55°C to 125 °C	0805	Variant 07: X7R Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090908	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 110K	N/A	0	163	324	48	537	24w	N	MOD 50 parts							
01	02	N/A	01.012.LFR	T409 Series CWR29 Style ML-PPF-53365/4	CWR09FC476KCB	47uF	10V	+/-10%	-55°C to 125 °C	-55°C to 125 °C	H	Hot solder dip	KEMET	ML-PPF-53365	ML-PPF-53365/4	N/A	CPPA	JAN	NO	YES	N	N/A	N/A	N/A	N/A	N/A	N/A	0	12	24	7	43	17w	N	5822: 4 for input 5810: 2 for input 4813: 2 for input							
01	02	N/A	01.013.LFR	T409 Series CWR29 Style ML-PPF-53365/11	CWR09FC227KCHB	220uF	10V	+/-10%	-55°C to 125 °C	-55°C to 125 °C	H	Hot solder dip	KEMET	ML-PPF-53365	ML-PPF-53365/11	N/A	CPPA	JAN	NO	YES	N	N/A	N/A	N/A	N/A	N/A	N/A	0	12	24	7	43	17w	N	5822: 8 for output 5810: 4 for output							
01	02	N/A	01.014.LFR	TAJ-ESCC Tantalum Capacitors SMD Solid Tantalum Chip Capacitors	30120010B476CK TAJ84750016ESA	4.7uF	16V	+/-10%	-55°C to 125 °C	-55°C to 125 °C	B (Variant 02)	G11: Iron-Nickel Alloy (Alloy 42) with Reflowed Tin-Lead plating, with Nickel and Silver underplating	AUX	ESCC 3012	ESCC 3012001	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 195E	N/A	0	5	10	5	20	28w	N	5822: 2 for input 5810: 3 for input 4813: 2 for input							
01	02	N/A	01.015.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 1812	309091007C100KA A91420Z100KNC	1uF	25V	+/-10%	-55°C to 125 °C	-55°C to 125 °C	1812	Ag, Ni Barrier with coating on lead, near eutectic, maximum 100 lead	AUX	ESCC 3009	ESCC 3090910	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 324	N/A	0	7	14	5	26	24w	N	5822: 2 for input							
01	02	N/A	01.016.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 1206	30909229C105JFC	1uF	50V	+/-0% +/-30ppm/C	-55°C to 125 °C	-55°C to 125 °C	1206	Variant 06: NPO Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090922	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 109K	N/A	0	20	40	10	70	24w	N	For SCM CAL + ADC buffers							
01	02	N/A	01.017.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 1206	309092206C30VJC	3.3uF	50V	+/-0% +/-30ppm/C	-55°C to 125 °C	-55°C to 125 °C	1206	Variant 06: NPO Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090922	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	QPL 109K	N/A	0	17	34	10	61	24w	N	For SCM CAL + ADC buffers							
01	02	N/A	01.018.LFR	CWR19P1H100M0CB precision metal capacitor CWR19	CWR19P1H100M0CB	10uF	10V	20%	-55 to +125	-55 to +125	SMD-C	Tin Lead	Kemet, USA	ML-PPF-53365	ML-PPF-53365/11	N/A	CPPA	NO	YES	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	2	4	3	9	24w	N								
01	02	N/A	01.019.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 1206	A603Z004730NC	4.7uF	50V	10%	-55 to +125	-55 to +125	1206	Tin Lead	AUX	ESCC 3009	ESCC 3090923		CPPA	Level C	NO	YES	N	N/A	N/A	N/A	N/A	ESCC QPL 109 K	N/A	0	1	2	3	6	24w	N								
01	02	N/A	01.020.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 1812	1812C47476R6C2	4.7uF	25V	10%	-55 to +125	-55 to +125	1812	Tin Lead	AUX	ESCC 3009		N/A	CPPA	ESCC C	LAT 2	YES	N	N/A	N/A	N/A	N/A	ESCC EPPH-I	N/A	0	4	8	5	17										
01	02	N/A	01.021.LFR	CAPACITORS, FIXED, CHIPS, CERAMIC DIELECTRIC, TYPE I, BASED ON TYPE 0805	30909087C330JC	33nF	50V	10%	-55 to +125	-55 to +125	0805	Variant 07: X7R Dielectric; Nickel Barrier Terminations with Tin Lead Finish	AUX	ESCC 3009	ESCC 3090908	N/A	CPPA	ESCC C	NO	YES	N	N/A	N/A	N/A	N/A	ESCC EPPH-I	N/A	0	1	2	3	6		N								
18 - Connectors																																										
02	05	SAVER J202-P	02.002.LFR	SAVER CONNECTOR MM MALE (P)	340104102B	15 pins	180V (See level)	N/A	-55°C to 125 °C	-55°C to 125 °C	SAVER 12 S and 16 P Variant 02	Shield: Electroplated Nickel (25-4µm)	CBK	ESCC 3401	ESCC 3401041	N/A	LESIA	ESCC B	NO	YES	N	N/A	N/A	N/A	N/A	QPL 140L	N/A	0	3	6	3	12		N	SUPPLIED AT LESIA SIDE							
02	07	J202-P	02.003.LFR	MM CONNECTOR 12 PINS MALE (P)	3401 026 018 01P FR112	15 pins	180V (See level)	N/A	-55°C to 125 °C	-55°C to 125 °C	15P	Shield: Nickel finish FR112	CBK	ESCC 3401	ESCC 3401026	N/A	LESIA	ESCC B	NO	YES	N	N/A	N/A	N/A	N/A	QPL 140L	N/A	0	2	4	3	9		N	SUPPLIED AT LESIA SIDE							
02	07	J202-P	02.004.LFR	MM CONNECTOR 21 PINS MALE (P)	3401 026 018 21P FR112	21 pins	180V (See level)	N/A	-55°C to 125 °C	-55°C to 125 °C	21P	Shield: Nickel finish FR112	CBK	ESCC 3401	ESCC 3401029	N/A	LESIA	ESCC B	NO	YES	N	N/A	N/A	N/A	N/A	QPL 140L	N/A	0	2	4	3	9		N	SUPPLIED AT LESIA SIDE							
02	09	SAVER J202-P	02.005.LFR	SAVER CONNECTOR MM 21 PINS MALE (P)	340104102B	21 pins	180V (See level)	N/A	-55°C to 125 °C	-55°C to 125 °C	SAVER 21P Variant 02	Shield: Electroplated Nickel (25-4µm)	CBK	ESCC 3401	ESCC 3401041	N/A	LESIA	ESCC B	NO	YES	N	N/A	N/A	N/A	N/A	QPL 140L	N/A	0	2	4	3	9		N	SUPPLIED AT LESIA SIDE							
02	09	N/A	02.006.LFR	ACCESSORIES FOR CONNECTOR	3401002xB	Torque value inside spec	N/A	N/A	-55°C to 125 °C	-55°C to 125 °C	Heat/Treat per part Meeting 90° Inspec T20	Passivated Stainless Steel (303)	CBK	ESCC 3401	ESCC 3401032	N/A	LESIA	ESCC B	NO	YES	N	N/A	N/A	N/A	N/A	QPL 140L	N/A	0	0	0	0	0		N	SUPPLIED AT LESIA SIDE							
02	09	N/A	02.007.LFR	ACCESSORIES FOR CONNECTOR	3401003tB	Torque value inside spec	N/A	N/A	-55°C to 125 °C	-55°C to 125 °C	Variant 10	Passivated Stainless Steel (303)	CBK	ESCC 3401	ESCC 3401032	N/A	LESIA	ESCC B	NO	YES	N	N/A	N/A	N/A	N/A	QPL 140L	N/A	0	0	0	0	0		N	SUPPLIED AT LESIA SIDE							
19 - Inductors																																										
07	03	N/A	07.001.LFR	MLP01 SEBI 14 LK 12B	301000018100M	10 µH	N/A	10%	-55°C to +140°C	-55°C to +120°C	SEBI 14	Sn/Pb	1) Microsemi 2) France	ESCC 3201	ESCC 3010009	N/A	CPPA	Level B	NO	Space Qualified	N	N/A	N/A	N/A	N/A	ESSE QPL 210C	N/A	0	5	10	5	20	18w	N	For MBK input circuit							
20 - Microcircuits																																										
08	61	N/A	08.003.LFR	RHF147K50-01V MICROCIRCUIT, DIGITAL LINEAR, 14 BIT, 20 MSPS ANALOG TO DIGITAL CONVERTER, MONOLITHIC SILICON	5962P060001VXC	N/A	3.3V	N/A	-55°C to 125 °C	-55°C to 125 °C	SO-48 Ceramic for pack with gold wire leads	Gold Plated	ST Micro	ML-PPF-38535	5962-0620	N/A	CPPA	QML-V	NO	YES	N	300uF	SEL:USEPFI New > 115 Max(10pin)	N	N/A	EPPL PART 1	N/A	0	9	18	5	32	47w	N								
08	50	N/A	08.004.LFR	OP AMP (DUAL) LT1302	LT1302SB	N/A	+/-0.5V	N/A	-55°C to 125 °C	-40°C to 85°C	8	Sn/Pb (85/15)	Linear Technology	NONE	1302CPA	N/A	CPPA	COTS	EVALUATION NEEDED	NO	Y	TBD	TBD	Y	To be written (Based on Terms evaluation)	NONE	N/A	0	15	30	7	52	15w	N	Very low power consumption, Back-up, RH1013 not suitable for LPT Team, 170 pieces poor in qualification							
08	50	N/A	08.005.LFR	UTSAUV05032-VE MICROCIRCUIT, LINEAR, 3 VOLT, LVDS QUAD, CMOS DIFFERENTIAL LINE DRIVER, MONOLITHIC SILICON	5962P0605105VXC	N/A	3.3V	N/A	-55°C to 125 °C	-55°C to 125 °C	FP-16	Gold Plated	Aeroflex	ML-PPF-38535	5962-06051	N/A	CPPA	QML-V	NO	YES	N	100uF	SEL:Immune to E1 = 1000uF/cm² (1mg)	N	N/A	NONE	N/A	0	2	4	3	9	25w	Y	MOD: 10 parts Backup: Non-TAR ENVOLVDS31 - Texas Instruments 24w RHFVDS31 - ST Micro - Non-TAR							
08	62	N/A	08.007.LFR	DAC1218101WGR0 MICROCIRCUIT, DIGITAL LINEAR, 18 BIT, DIGITAL ANALOG CONVERTER, MONOLITHIC SILICON	5962P072801VZA	N/A	N/A	N/A	-55°C to 125 °C	-55°C to 125 °C	GDSP1-G10 (FP 10 with Gold Wire)	Hot solder dip	National semiconductor	ML-PPF-38535	5962-0728	N/A	CPPA	QML-V	NO	YES	Y	100uF EOR - 120V shall be confirmed by manufacturer	No SEL for LET +120 Max(10pin/cm)	N	N/A	NONE	N/A	0	1	2	3	6	25w	Y	Low dose rate testing shall be performed by the manufacturer on the right lot procured							
08	50	N/A	08.010.LFR	UTSAUV05032-VE MICROCIRCUIT, LINEAR, LINE RECOVER, DIFFERENTIAL, QUAD, LVDS, LOW VOLTAGE, MONOLITHIC SILICON	5962P060505VYC	N/A	3.3V	N/A	-55°C to 125 °C	-55°C to 125 °C	FP-16	Gold Plated	Aeroflex	ML-PPF-38535	5962-06052	N/A	CPPA	QML-V	NO	YES	N	100 uF	SEL:Immune to E1 = 1000uF/cm² (1mg)	N	N/A	NONE	N/A	0	2	4	3	9	25w	Y								
08	52	N/A	08.011.LFR	450 MBK 1.0V MS062DRH-1.5 K RH-0 MICROCIRCUIT, HYBRID LINEAR, LOW DROPOUT, FIXED VOLTAGE, REGULATOR	5962P0923601KCC	N/A	2.5 - 6.5V	N/A	-55°C to 125 °C	-55°C to 125°C	5 PIN POWER TOP-TAB TO-254 (DW)	Gold Plated	MS Kennedy	ML-PPF-38534	5962-0526	N/A	CPPA	Class K	NO	YES	N	100uF (ELDS)	SEL	N	N/A	NONE	N/A	3	1	2	3	9	25w	Y	Low dose rate testing shall be performed by the manufacturer on the right lot procured							
08	52	N/A	08.013.LFR	2.5V Reference Linear Tech RV1009	RH1009MM	N/A	-	N/A	-55°C to 125 °C	-55°C to 125°C	10 Pins	Option 2 (MW) Hot Solder Dip	Linear Technology	05-08-5011	05-08-5011	N/A	CPPA	Eq QML-V	TBD	NO	N	50uF	TBD	TBD	TBD	TBD	NONE	N/A	3	1	2	3	9	30w	Y							
08	20	N/A	08.014.LFR	LV18H009M-0A-01 MICROCIRCUIT, MEMORY, DIGITAL, CMOS, 18Kb x 12 8BT (32M), RADIATION HARDENED, LOW VOLTAGE SRAM with antidegraded ESAC MULTICHP MODULE	5962P102035VXC	32M Access time: 20ns	2.5-3.6V (VCC) 1.2-2.0V (VDD)	-55°C to 125 °C	-55°C to 125°C	FP-132	Gold Plated	AEROFLEX	ML-PPF-38535	5962-10202	N/A	CPPA	QML-V	NO	YES	N	100uF	LET JNLA SEL-1111 Mem-oring SEU: 6.0 x 10 ⁻¹⁶ events/day	TBD	TBD	N/A	N/A	0	1	2	3	6	16w	Y	ESAC Feature included.								
08	30	N/A	08.015.LFR	RTAXA00003-1-E Flow	5962-0824160XC	N/A	1.5V/3.3V	N/A	-55°C to 125 °C	-55°C to 125°C	COPF502	Gold Plated	Acme/Mundamsi	ML-PPF-38535	5962-0802	N/A	CPPA	E Flow	NO	YES	N	300 lead (functional and 200 lead (parameters)	TBD	TBD	N/A	NONE	N/A	0	1	2	3	6	24w	Y	PPWR REQUIRED							
08	59	N/A	08.016.LFR	MR4C-020W TRIPLE CHANNEL ANALOG MULTIPLEXER	94050050F	N/A	-0.5V -5V	N/A	-55°C to 125 °C	-55°C to 125°C	FP-16	Gold Plated	ST Micro	ESCC 3000	ESCC 9405005	N/A	CPPA	QML-V	NO	YES	N	100uF	SEL: A-B01 Immune to LET = +110 MeV/cm² ing	N	N/A	NONE	N/A	0	7	14	5	26	24w	N								

08	52	N/A	08.017.LFR	LDO MSK MICROCIRCUIT HYBRID LINEAR LOW DROPOUT ADJUSTABLE AND FIXED VOLTAGE REGULATOR	5962F025162RUC	N/A	2.0 - 7.5V	N/A	45 °C to 120 °C	55 °C to 120 °C	FP-30	Gold Plated	MS Kennedy	ML-PWF-38534	5962-00716	N/A	CPPA	Class K	NO	YES	N	100Rad (E100)	RED	N	N/A	NONE	N/A	3	1	2	3	9	15w	Y	For 1.5V generation	
08	52	N/A	08.018.LFR	RHF4802P22.0V MICROCIRCUIT LINEAR POSITIVE FIXED 2.5 V LOW DROPOUT VOLTAGE REGULATOR MONOTONIC SLODOWN	5962F025401VVC	2A		N/A	45 °C to 120 °C	55 °C to 150 °C	FP-16	Gold Plated	ST Micro	ML-PWF-38535	5962-02534	N/A	CPPA	QML V	NO	YES	N	300Rad (E100)	SEL & SEU immune to LET > 65 MeV/cm² mg	N	N/A	NONE	N/A	0	2	4	3	9	25w	N		
08	52	N/A	08.019.LFR	RHF4818P20A.0V VOLTAGE REGULATOR ADJUSTABLE POSITIVE 2.0	5962F025401VVC	N/A	+3.3V	N/A	-65 to +130	-65 to +125	FP-16	Gold Plated	ST Micro	ML-PWF-38535	5962-02534	N/A	CPPA	QML V	N/A	YES	N/A	300	40	N/A	N/A	QML V	N/A	0	1	2	3	6	34w	N		
08	52	N/A	08.020.LFR	REFLECTIVITY OCTAL BUFFER WITH THREE-STATE OUTPUTS TTL COMPATIBLE INPUTS	5962F076502VVC	N/A	+5V	N/A	45 °C to 120 °C	55 °C to 120 °C	FP-30	Gold Plated	ST Micro	ML-PWF-38535	5962-08779	N/A	Self Protected (PHEG)	QML V	N/A	YES	N/A	300	110	N/A	N/A	QML V	N/A	0	1	2	3	6	6w	N		
B - Resistors																																				
10	09	N/A	10.021.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301130B2	13K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	16	32	7	55	15w	N	MOQ: 100 parts	
10	09	N/A	10.022.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301200B2	20K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	12	24	7	43	15w	N	MOQ: 100 parts	
10	09	N/A	10.023.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301601B2	6.8K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	49	98	14	161	15w	N	MOQ: 100 parts	
10	09	N/A	10.024.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023011001B2	1K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	23	46	10	73	15w	N	MOQ: 100 parts	
10	09	N/A	10.025.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023017501B2	7.5K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	22	44	10	76	15w	N	MOQ: 100 parts	
10	09	N/A	10.026.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301120B2	12K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	38	76	11	125	15w	N	MOQ: 100 parts	
10	09	N/A	10.010.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE CIP	400102001000F4	100	1/4 W	1% at 100ppm	55 °C to 150 °C	55 °C to 150 °C	1206	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001026	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	8	16	5	29	15w	N	MOQ: 100 parts	
10	09	N/A	10.016.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE CIP	400102001180F4	10	1/4 W	1% at 100ppm	55 °C to 150 °C	55 °C to 150 °C	1206	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001026	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	15	30	7	52	15w	N	
10	09	N/A	10.017.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023011601B2	160K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N	MOQ: 100 parts SCM CAL	
10	09	N/A	10.018.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023013001B2	300K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N	MOQ: 100 parts SCM CAL	
10	09	N/A	10.019.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301601B2	660K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	8	16	5	29	15w	N	MOQ: 100 parts SPW_PULL_DOWN	
10	09	N/A	10.020.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023014201B2	420K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N		
10	09	N/A	10.021.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301102B2	10K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	11	22	7	40	15w	N	MOQ: 100 parts MSR 5010 Feedback + AN Voltage	
10	09	N/A	10.022.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301161B2	316K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	16	32	7	55	15w	N	MOQ: 100 parts AN Voltage	
10	09	N/A	10.023.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301103B2	100K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	9	18	5	32	15w	N	MOQ: 100 parts ADC	
10	09	N/A	10.024.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301203B2	200K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	19	38	10	67	15w	N	MOQ: 100 parts ADC	
10	09	N/A	10.025.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301420B2	42K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N	MOQ: 100 parts HK	
10	09	N/A	10.026.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301602B2	66K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	2	4	3	9	15w	N	MOQ: 100 parts HK	
10	09	N/A	10.027.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301600B2	80K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N	MOQ: 100 parts W	
10	09	N/A	10.028.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301825B2	825	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N	MOQ: 100 parts Polar Ref de Tension	
10	09	N/A	10.029.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023017601B2	7.6K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N	MOQ: 100 parts Ref de Tension	
10	09	N/A	10.030.LFR	SMP-PW 2001R10.0 0.1% 50ppm/°C 200V 1W	400102701R100D	0.1	1W / 200V	0.5% 50ppm	55 °C to 170 °C	55 °C to 170 °C	2010	electroplated tin lead Sn60	Isobathenite	ESCC 4001	ESCC 4001027	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	1	2	3	6	15w	N		
10	09	N/A	10.031.LFR	SMP-PW 2001R10.0 0.1% 50ppm/°C 200V 1W	400102701R200D	0.2	1W / 200V	0.5% 50ppm	55 °C to 170 °C	55 °C to 170 °C	2010	electroplated tin lead Sn60	Isobathenite	ESCC 4001	ESCC 4001027	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	1	2	3	6	15w	N		
10	09	N/A	10.032.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023012201B2	2.2K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N		
10	09	N/A	10.033.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	400102301220B2	22K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	3	6	3	12	15w	N		
10	09	N/A	10.034.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	4001023011301B2	1.3K	1/10 W	0.1% at 25ppm	55 °C to 150 °C	55 °C to 150 °C	0603	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N		
10	09	N/A	10.035.LFR	RESISTORS, FIXED, CHIP, THIN FILM BASED ON TYPE PWR AND PPR8	40010230349R81	49.9	1/4 W	0.1% at 10ppm	55 °C to 150 °C	55 °C to 150 °C	1206	E4 Nickel + Hot solder dp.	VISHAY Shottky	ESCC 4001	ESCC 4001023	N/A	CPPA	FRR	NO	YES	N/A	N/A	N/A	N/A	N/A	QPL 2976	N/A	0	1	2	3	6	15w	N		
B1 - Thermistors																																				
11	03	N/A	11.001.LFR	THERMISTOR, PLATINUM RESISTANCE, THERMALLY SENSITIVE RESISTORS, 1000 Ohms	P140.232.7W.010	1000Ohms			3.2W/100 Ohms	F0.3	200 °C to 750 °C	200 °C to 750 °C	2 wires	Platinum wires 0.2mm	IST	In accordance with ESCC 4001 level B.	In accordance with ESCC 4001 level B.	N/A	CPPA	Level B	NO	YES	N/A	N/A	N/A	N/A	N/A	N/A	0	2	4	3	9	34w	N	
B2 - Inductors																																				
40	03	N/A	40.003.LFR	1101R48M15000BF	1101R48M15000BF	48.150mH	N/A	15ppm @ 25 °C	45 °C to 120 °C	55 °C to 120 °C	FP-12	Gold	Vacuum	Modified																						