



Environmental data

Date : June 23, 2016

BOM Name: Test-BOM 160425

CPN	DESCRIPTION	VALUE	EL	MANUFACTURER	BOM MPN	CHOSEN MPN	CHOSEN MANUF	RoHS COMPLIANT	REACH STATUS	DATE SVHC	CHINA RoHS EPUP	Cadmium	Chromium VI or CR6+	Lead	Mercury	PBB	PBDE
EKC0007	Cap. Cer.	1u	100V,X7R,10%	Kemet	C1210C105K1RAC	C1210C105K1RAC	KEMET Corporation	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0102	Cap. Cer.	2u2	50V,X7R,10%	Murata	GRM31CR71H225K	GRM31CR71H225K	Murata Manufacturing	Unconfirmed	Unaffected	Dec 17, 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKC0143	Cap. Cer.	1u	50V,X7R,10%	Murata	GRM31MR71H105K	GRM31MR71H105K	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0166	Cap. Cer.	47n	250V,X7R,10%	Murata	GRM31CR72E473KW03	GRM31CR72E473KW03L	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0267	Cap. Cer.	4u7	50V,X7R,10%	Murata	GRM32ER71H475K	GRM32ER71H475K	Murata Manufacturing	Unconfirmed	Unaffected	Dec 17, 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKC0305	Cap. X/Y	6n8	300Vac,20%,Y2	Epcos	B32021A3682M	B32021A3682M000	TDK	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0338	Cap. Cer.	2u2	100V,X7R,10%	Murata	GRM32ER72A225K	GRM32ER72A225KA35L	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0395	Cap. Cer.	470n	50V,X7R,10%	Murata	GRM31MR71H474K	GRM31MR71H474KA01L	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0404	Cap. Cer.	10u	50V,X7R,10%	TDK	C5750X7R1H106K	C5750X7R1H106K230KB	TDK	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0420	Cap. Cer.	470p	1kV,NP0,5%	AVX	1206AA471JATxA	1206AA471JAT1A	AVX	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0433	Cap. Cer.	10u	10V,X7R,10%	Murata	GRM31CR71A106K	GRM31CR71A106KA01L	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0436	Cap. Cer.	10u	25V,X7R,10%	Murata	GCM32ER71E106K	GCM32ER71E106KA57L	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0439	Cap. Cer.	10u	16V,X7R,10%	Murata	GRM31CR71C106K	GRM31CR71C106KA12L	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0470	Cap. Elyt	47u	25V,20%	Nippon Chemi-con	EMVA250ADA470MF55G	EMVA250ADA470MF55G	United Chemi Con	Compliant	Unaffected	Jun 16, 2014	e	0	0	0	0	0	0
EKC0594	Cap. X/Y	150n	300Vac,20%,Y2	Epcos	B32023A3154Mxxx	B32023A3154M189	TDK	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0608	Cap. Cer.	47u	10V,X7R,20%	Taiyo Yuden	LMK325B7476MM-xx	LMK325B7476MM-PR	Taiyo Yuden	Compliant	Unaffected	Jun 15, 2015	e	0	0	0	0	0	0
EKC0611	Cap. Elyt	180u	35V,20%	Rubycon	35ZLJ180M8x11.5	35ZLJ180M8x11.5	Rubycon	Compliant	Unaffected	Dec 15, 2010	e	0	0	0	0	0	0
EKC0612	Cap. Elyt	330u	35V,20%	Rubycon	35ZLH330MEFC10x12.5	35ZLH330MEFC10x12.5	Rubycon	Compliant	Unaffected	Dec 15, 2010	e	0	0	0	0	0	0
EKC0619	Cap. Cer.	100n	200V,X7R,10%	Kemet	C1206C104K2RACx	C1206C104K2RACTU	KEMET Corporation	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKC0623	Cap. Elyt	1200u	35V,20%	Rubycon	35ZLJ1200M12.5x25	35ZLJ1200M12.5x25	Rubycon	Compliant	Unaffected	Dec 15, 2010	e	0	0	0	0	0	0
EKC0624	Cap. Elyt	270u	100V,20%	Rubycon	100ZLJ270M12.5x30	100ZLJ270M12.5x30	Rubycon	Compliant	Unaffected	Dec 15, 2010	e	0	0	0	0	0	0
EKC0676	Cap. Elyt	470u	450Vdc,20%	Rubycon	450VXH470MEFCSN35X40	450VXH470MEFCSN35X40	Rubycon	Compliant	Unaffected	Dec 15, 2010	e	0	0	0	0	0	0
EKC0680	Cap. Elyt	3900u	35V,20%	Nippon Chemi-con	EKYB350ELL392MLP1S	EKYB350ELL392MLP1S	United Chemi Con	Compliant	Unaffected	Jun 16, 2014	e	0	0	0	0	0	0
EKC0681	Cap. Elyt	1500u	63V,20%	Nippon Chemi-con	EKYB630ELL152MLP1S	EKYB630ELL152MLP1S	United Chemi Con	Compliant	Unaffected	Jun 16, 2014	e	0	0	0	0	0	0
EKC0683	Cap. Polyester	1u	63Vdc/40Vac,10%	Wima	MKS4C041003C00KSSD	MKS4C041003C00KSSD	WIMA	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0021	Trans. PNP	BCX71J	45V,100mA	NXP	BCX71J	BCX71J	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0029	IC OP	LM8261	2.5-30V,21MHz,12V/us	National	LM8261M5NOPB	LM8261M5/NOPB	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0053	Diode Small signal	BAS21	200V,200mA	NXP	BAS21	BAS21	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0065	Diode Power	ES1D	200V,1A	Vishay	ES1D	ES1D-E3	Vishay	Compliant	Unaffected	Jun 20, 2013	50	0	0	X	0	0	0
EKQ0126	Diode Schottky	15MQ040N	40V,3A	Intern. Rect.	15MQ040NPBF	MBRA340T3G	ON Semiconductor	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ0210	IC OP	TS321	3-30V,800kHz,0.4V/us	ST	TS321ILT	TS321ILT	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0337	Diode Schottky	SS16	60V,1A	Vishay	SS16	SS16-E3	Vishay	Compliant	Unaffected	Jun 20, 2013	50	0	0	X	0	0	0
EKQ0343	IC PWM Int. Sw.	LM2674-5V	5V,500mA	National	LM2674M-5.0	LM2674M-5.0	Texas Instruments	Not Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ0384	Trans. NPN	MJD31C	100V,3A	Fairchild	MJD31C	MJD31CTF	Fairchild Semiconductor	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ0602	IC Volt. ref.	LM431	2.5V,0.5%,50ppm	National	LM431CIM3/NOPB	LM431CIM3/NOPB	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0603	Trans. NFET	STB40NF10	100V,35A	ST	STB40NF10T4	STB40NF10T4	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ0613	IC Volt. reg.	LM2937-3.3	3.3V,400mA,5%	National	LM2937IMP-3.3/NOPB	LM2937IMP-3.3/NOPB	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0679	Diode Transient	SM6T33CA	28.2V,600W	ST	SM6T33CA	SM6T33CA	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ0754	Trans. NPN	BC846B	65V,100mA	NXP	BC846B	BC846B	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0757	Diode Schottky	MBRS20H150CT	150V, 2x10A	Taiwan Semi	MBRS20H150CT	MBRS20H150CT	Taiwan Semiconductor	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ0833	IC PWM Ext. Sw.	LM25037	5.5-75V	National	LM25037MT	LM25037MT	Texas Instruments	Not Compliant	Unaffected	Dec 17, 2015	10	0	0	X	0	0	0
EKQ0836	Diode Transient	PESD1CAN	24V,200W	NXP	PESD1CAN	PESD1CAN	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0847	Diode Schottky	SBR10U200P5	200V,10A	Diodes Inc.	SBR10U200P5	SBR10U200P5	Diodes Incorporated	Compliant			50	0	0	X	0	0	0
EKQ0849	IC Volt. ref.	LMV431	1.24-18V,39ppm,1%	National	LMV431AIMF/NOPB	LMV431AIMF/NOPB	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0888	Diode Small signal	BAS16J	100V,250mA	NXP	BAS16J	BAS16J	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ0903	IC Processor	TMS320F28035	3-3.6V,60MHz	Texas	TMS320F28035PAGT	TMS320F28035PAGT	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1026	Trans. NFET	FDV301N	25V,220mA	Fairchild	FDV301N	FDV301N	Fairchild Semiconductor	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1052	Diode Zener	12V	12V,2%,0.3W	NXP	BZX384-B12	BZX384-B12	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1156	IC Opto coupler	HMHA2801	CTR 80-160%	Fairchild	HMHA2801A	HMHA2801A	Fairchild Semiconductor	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1235	IC Bus Interface	MAX3232	RS232	Texas	MAX3232IPW	MAX3232IPW	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1325	Trans. NFET	IPP65R074C6	650V,57.7A	Infineon	IPP65R074C6	IPP65R074C6	Infineon Technologies AG	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1330	Diode Schottky	IDH08SG60C	600V,8A	Infineon	IDH08SG60C	IDH08SG60C	Infineon Technologies AG	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1403	Diode Schottky	PMEG6010	60V,1A	NXP	PMEG6010CEH	PMEG6010CEH	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1450	Diode Power	ES1J	600V,1A	Fairchild	ES1J	ES1J	Fairchild Semiconductor	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ1517	IC PWM Int. Sw.	TPS5420	Vout=1.22V-Vin,2A	Texas	TPS5420DG4	TPS5420DG4	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1623	Trans. NFET	BSS123	100V,170mA	Fairchild	BSS123	BSS123	Fairchild Semiconductor	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1661	IC PWM Int. Sw.	LT8300	Vout=0-150V,260mA	Linear	LT8300IS5#PBF	LT8300IS5#PBF	Linear Technology	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1665	Trans. NFET	FDP075	150V,130A	Fairchild	FDP075N15A_F102	FDP075N15A_F102	Fairchild Semiconductor	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ1671	Sensor Current	INA169	Vcm=2.7-60V	Texas	INA169NA/xxx	INA169NA/3K	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0

EKQ1696	Sensor temp.	MCP9701A	3.1-5.5V,Analog	Microchip	MCP9701AT-E/TT	MCP9701AT-E/TT	Microchip Technology	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1720	Trans. NFET	IPP50R520	550V,7.1A	Infineon	IPP50R520CP	IPP50R520CP	Infineon Technologies AG	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1731	IC PWM Ext. Sw.	LM5116	VREF=1.215V,3.5A	Texas	LM5116MH/NOPB	LM5116MH/NOPB	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1733	Diode Transient	SMBJ78CA	78V,600W	Littelfuse	SMBJ78CA	SMBJ78CA	Littelfuse	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ1737	Trans. NFET	STP110N10F7	100V,110A	ST	STP110N10F7	STP110N10F7	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ1739	IC Volt. ref.	MAX6107	4.5V,0.4%,75ppm	Maxim	MAX6107EUR+x	MAX6107EUR+T	Maxim Integrated	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1740	IC Bus Interface	TJA1042	CAN	NXP	TJA1042T	TJA1042T	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1744	IC Processor	S12GA128	MC9S12G	Freescall	S9S12GA128F0VLHx	S9S12GA240F0VLH	NXP Semiconductors	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1746	Diode Transient	SMBJ78A	78V,600W	Littelfuse	SMBJ78A	SMBJ78A	Littelfuse	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ1748	IC Driver MOSFET Lo	TPS2829	4-14V,+/-100mA	Texas	TPS2829DBVx	TPS2829DBVR	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1795	IC Driver MOSFET Hi	UCC27201A	8-17V,3A	Texas	UCC27201ADDA	UCC27201ADDA	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1798	Diode Schottky	STPS5L60	60V,5A	ST	STPS5L60S	STPS5L60S	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ1826	Diode Schottky	STPS30150CT	150V,2x15A	ST	STPS30150CT	STPS30150CT	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ1833	IC Volt. reg.	LM317	Adj.,1.2-37V,0.5A,0.1%	ON Semicond.	LM317MBDxxx	LM317MBDTRKG	ON Semiconductor	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ1835	Trans. NFET	STH315N10F7	100V,180A	ST	STH315N10F7-6	STH315N10F7-6	STMicroelectronics	Compliant	Unaffected	Dec 17, 2015	N/A	0	0	X	0	0	0
EKQ1836	Sensor Current Non I	LTC6102HV	5-100V	Linear	LTC6102HVHDD#xxPBF	LTC6102HVHDD#TRPBF	Linear Technology	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1840	Diode Transient	SMBJ75CA	75V,600W	Littelfuse	SMBJ75CA	SMBJ75CA	Littelfuse	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKQ1841	IC Misc	LT4356-3	4-80V,40uA	Linear	LT4356HMS-3#PBF	LT4356HMS-3#PBF	Linear Technology	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1842	IC Comparator	TLC3704	3-16V,5mV	Texas	TLC3704QDRQ1	TLC3704QDRQ1	Texas Instruments	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1843	Trans. PFET	SI2309CDS	60V,1.2A	Vishay	SI2309CDS	SI2309CDS-T1-GE3	Vishay	Compliant	Unaffected	Dec 17, 2014	e	0	0	0	0	0	0
EKQ1844	Trans. NFET	IRFB7530	60V,195A	Intern. Rect.	IRFB7530PBF	IRFB7530PbF	Infineon Technologies AG	Compliant	Unaffected	Dec 17, 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKQ1846	Diode LED	RED	Reversed	Osram	Q65110A2222	Q65110A2222	OSRAM Opto Semiconduc	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKQ1847	Diode LED	GREEN	Reversed	Osram	Q65110A2247	Q65110A2247	OSRAM Opto Semiconduc	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKR0404	Res. VDR	75Vac	40J	Epcos	B72220S0750K101	B72220S0750K101	TDK	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKV0162	Inductor	10u	20%,5.3A	Coiltronics	DR125-100	DR125-100	Eaton	Unconfirmed	Unaffected	Oct 28, 2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKV0384	Inductor	100u	20%,0.9A	Coiltronics	DR74-101	DR74-101	Eaton	Not Compliant	Unaffected	Oct 28, 2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKV0715	Inductor	0u2	20%,24A	Vishay	IHLP2525CZERR20M01	IHLP2525CZERR20M01	Vishay	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKV0752	Sensor Current Isol.	15A,650V	4.75-5.25V	Vacuumschmelze	T60404-N4646-X662	T60404-N4646-X662	VACUUMSCHMELZE Gmb	Compliant			e	0	0	0	0	0	0
EKV0828	Connector Header/Sc	6p	Male,Straight	Harting	09185066324	09 18 506 6324	HARTING	Compliant	Unaffected	Dec 17, 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKV0859	Crystal	10MHz	±30ppm,±30ppm	EUROQUARTZ	10.000MHz MJ/30/30/	10.000MHzMJ/30/50/-40+85	Euroquartz		Unaffected	Dec 17, 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKV0862	Connector Header/Sc	14p	Male,Straight	AMP	1241050-7	1241050-7	TE Connectivity Ltd	Compliant	Unaffected	Jun 15, 2015	e	0	0	0	0	0	0
EKV1010	Inductor	3u9	20%,1.3A	Bourns	SDR0302-3R9ML	SDR0302-3R9ML	Bourns	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKV1313	Inductor	4u7	20%,2A	Taiyo Yuden	NRS5020T4R7MMGJ	NRS5020T 4R7MMGJ	Taiyo Yuden	Compliant			N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKV1429	Inductor	220u	15%,5A	Murata	60B224C	60B224C	Murata Manufacturing	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKV1452	Transformer	Transf.		Cooper	VP1-1400-R	VP1-1400-R	Eaton	Compliant	Unaffected	Dec 17, 2015	e	0	0	0	0	0	0
EKV1476	Connector Header/Sc	4p	Male,Straight	JST	BM04B-NSHSS-TBT	BM04B-NSHSS-TBT (LF)(SN)	JST Manufacturing				N/A	N/A	N/A	N/A	N/A	N/A	N/A
EKV1566	Inductor	6u8	20%,1A	TDK	VLS3015ET-6R8M	VLS3015ET-6R8M	TDK	Compliant	Unaffected	Jun 15, 2015	e	0	0	0	0	0	0
EKV1573	Connector Terminal	1p	N/A,45A	Wurth	7470075					0	0						
EKV1602	Fuse	250mA	125V,Ceramic	Littelfuse	0451250.xXL	0451.250.MRL	Littelfuse	Compliant	Unaffected	Dec 17, 2015	50	0	0	X	0	0	0
EKV1627	Connector Header/Sc	32+8p	Male,Straight	TE Connectivity	293266-2	293266-2	TE Connectivity Ltd	Compliant	Unaffected	Jun 15, 2015	e	0	0	0	0	0	0
EKV1629	Inductor	10u	20%,16A	Vishay	IHLP6767GZER100M5A	IHLP6767GZER100M5A	Vishay	Compliant	Unaffected	Jun 16, 2014	e	0	0	0	0	0	0

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