


Project: Lighting_kit_rev1.1.PrjPcb						Bill of Materials									
Source Data From:		Lighting_kit_rev1.1.PrjPcb										 Solution Engineering Center Piestany			
Project:		Lighting_kit_rev1.1.PrjPcb													
Variant:		standard_board													
Report Date:		9/30/2019		11:02 AM											
Print Date:		12/11/2019		13:15:55											
#	Designator	Comment	Description	LibRef	SourceLibraryName	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Supplier 2	Supplier Part Number 2	Quantity			
1.	C1	2.2 uF	MLCC capacitor 2.2uF 25V X7R 10% Wurth Electronics	885012209025	capacitors.SVNDblib	Würth Elektronik	885012209025	Würth Elektronik	885012209025			1			
2.	C2	22 nF	MLC capacitor 22nF 50V X7R 10% Murata	GRM218R71H273KA01L	capacitors.SVNDblib	Murata	GRM218R71H273KA01L	Murata	GRM218R71H273KA01L			1			
3.	C3	2.2 uF	ALU electrolyte capacitor 2.2uF 250V 20% Würth Elektronik	860131173002	capacitors.SVNDblib	Würth Elektronik	860131173002	Würth Elektronik	860131173002			1			
4.	C4	5n6	MLC capacitor 5n6 50V X7R 10% Murata	GRM219R71H562KA17D	capacitors.SVNDblib	Murata	GRM219R71H562KA17D	Murata	GRM219R71H562KA17D			1			
5.	C5	47 nF	MLC capacitor 47nF 50V X7R 10% Wurth Electronics	885012206093	capacitors.SVNDblib	Würth Elektronik	885012206093	Digi-Key	732-8011-1-ND	Mouser	710-885012206093	1			
6.	C6	22 uF	MLCC capacitor 22uF 16V X5R 20% Wurth Electronics	885012108018	capacitors.SVNDblib	Würth Elektronik	885012108018	Würth Elektronik	885012108018			1			
7.	C7, C8, C13, C18	1 uF	MLCC capacitor 1uF 25V X5R 20% Wurth Electronics	885012106022	capacitors.SVNDblib	Würth Elektronik	885012106022	Würth Elektronik	885012106022			4			
8.	C9, C14	150 nF	R82, Film, Metallized Polyester Stacked, Automotive Grade, 0.15 uF, 10%, 100 VDC, 85C, Lead Spacing = 5mm	R82EC3350AA70K	capacitors.SVNDblib	KEMET	R82EC3350AA70K	Farnell	2710249	Mouser	80-R82EC3350AA70K	2			
9.	C10, C15	22 uF	ALU electrolyte capacitor 22uF 100V 20% Würth Elektronik	860130875007	capacitors.SVNDblib	Würth Elektronik	860130875007	Würth Elektronik	860130875007			2			
#	C11, C16, C23	100 nF	MLCC capacitor 100nF 100V X7R 10% Wurth Electronics	885382208006	capacitors.SVNDblib	Würth Elektronik	885382208006	Würth Elektronik	885382208006			3			
#	C12, C17	1 nF	MLC capacitor 1nF 25V NP0 5% Wurth Electronics	885012005044	capacitors.SVNDblib	Würth Elektronik	885012005044	Digi-Key	732-7786-1-ND	Mouser	710-885012005044	2			
#	C19, C20, C21, C22	100 nF	MLC capacitor 100nF 25V X7R 10% Wurth Electronics	885012206071	capacitors.SVNDblib	Würth Elektronik	885012206071	Digi-Key	732-7989-2-ND	Mouser	710-885012206071	4			
#	CON1, CON4	695402400222	Wire-To-Board Connector, 4 mm, 2 Contacts, Receptacle, WR-LECO Series, Surface Mount, 1 Rows	695402400222	connectors.SVNDblib	Würth Elektronik	695402400222	Würth Elektronik	695402400222	Farnell	2664433	2			
#	CON2	61302021021	Board-To-Board Connector, Right Angle, 2.54 mm, 20 Contacts, Header, WR-PHD Series, Through Hole, Wurth	61302021021	connectors.SVNDblib	Würth Elektronik	61302021021	Würth Elektronik	61302021021	Farnell	2356201	1			
#	CON3	61301811821	WR-PHD 2.54 mm Socket Header, Wurth	61301811821	connectors.SVNDblib	Würth Elektronik	61301811821	Würth Elektronik	61301811821			1			
#	D1	MM3Z18V	Zener diode 18V 300mW SOD323 ON Semiconductor	MM3Z18V1G	diodes.SVNDblib	ON Semiconductor	MM3Z18V1G	Digi-Key	MM3Z18V1GOSCT-ND	Mouser	863-MM3Z18V1G	1			
#	D2, D3	ES1JFL	Fast / Ultrafast Diode, 600 V, 1 A, Single, 1.7 V, 35 ns, 30 A ON Semiconductor	ES1JFL	diodes.SVNDblib	ON Semiconductor	ES1JFL	Farnell	2822530	Mouser	512-ES1JFL	2			
#	D4	MMS24V3T1G	Zener Diodes 4.3V 500mW SOD123 ON Semiconductor	MMS24V3T1G	diodes.SVNDblib	ON Semiconductor	MMS24V3T1G	Mouser	863-MMS24V3T1G	Digi-Key	MMS24V3T1GOSTR-ND	1			
#	D5, D6	ESD3	Fast / Ultrafast Diode, 200 V, 3 A, Single, 950 mV, 20 ns, 100 A ON Semiconductor	ESD3	diodes.SVNDblib	ON Semiconductor	ESD3	Farnell	1651044	Mouser	512-ESD3	2			
#	IC1, IC2	FL7760BM6X	Analog/PWM Dimmable 60 V Input Buck Controller for LED Lighting, Linear Dimming Curve - Narrow Analog Dim. Range	FL7760BM6X	ics.SVNDblib	ON Semiconductor	FL7760BM6X	Mouser	863-FL7760BM6X	Digi-Key	FL7760BM6XOSTR-ND	2			
#	IC3	NCP10671BD100R2G	High-Voltage Switcher for low Power offline SMPS, 100 kHz and 250 mA Ipk in SOIC-7	NCP10671BD100R2G	ics.SVNDblib	ON Semiconductor	NCP10671BD100R2G	Digi-Key	NCP10671BD100R2G-ND	Mouser	863-NCP10671BD100R2G	1			
#	IC5, IC6											2			
#	L1	1 mH	Fixed Inductor 1 mH 0.2A 6000mOhm, ± 20% Würth Elektronik	744777930	inductors.SVNDblib	Würth Elektronik	744777930	Würth Elektronik	744777930			1			
#	L2, L3	100 uH	Fixed Inductor 100uH 2.6A 165mOhm, ± 20% Würth Elektronik	744373965101	inductors.SVNDblib	Würth Elektronik	744373965101	Würth Elektronik	744373965101			2			
#	O1, O2	FDD10N20L2TM	UniFet N-channel Mosfet 200V 16A	FDD10N20L2TM	transistors.SVNDblib	ON Semiconductor	FDD10N20L2TM	ON Semiconductor	FDD10N20L2TM	Farnell	2825151	2			
#	Q3	NS8C114EPDXV6T1G	Complementary Bipolar Digital Transistor (BRT) R1=10kOhm R2= 10kOhm, ON Semiconductor	NS8C114EPDXV6T1G	transistors.SVNDblib	ON Semiconductor	NS8C114EPDXV6T1G	ON Semiconductor	NS8C114EPDXV6T1G	Mouser	863-NS8C114EPDXV6T1G	1			
#	Q4	FDC3535	MOSFET Transistor, P Channel, -2.1 A, -80 V, 0.183 ohm, -10 V, -1.6 V, ON Semiconductor	FDC3535	transistors.SVNDblib	ON Semiconductor	FDC3535	Farnell	2322579	Mouser	512-FDC3535	1			
#	R1, R14	10R	SMD thick film resistor 10R 0603 1% 100 mW Panasonic	ERJ3KF10R0V	resistors.SVNDblib	Panasonic	ERJ3KF10R0V	Farnell	2302958	Mouser	667-ERJ-3KF10R0V	2			
#	R2	16k2	SMD thick film resistor 16k2 0603 1% 100 mW Panasonic	ERJ3KF1622V	resistors.SVNDblib	Panasonic	ERJ3KF1622V	Digi-Key	P16.2KHCT-ND	Mouser	667-ERJ-3KF1622V	1			
#	R3	3k6	SMD thick film resistor 3k6 0603 1% 100 mW Panasonic	ERJ3KF3601V	resistors.SVNDblib	Panasonic	ERJ3KF3601V	Farnell	2303175	Mouser	667-ERJ-3KF3601V	1			
#	R4, R7, R10	56k	SMD thick film resistor 56k 0603 1% 100 mW Panasonic	ERJ3KF5602V	resistors.SVNDblib	Panasonic	ERJ3KF5602V	Digi-Key	P56.0KHCT-ND	Mouser	667-ERJ-3KF5602V	3			
#	R5, R8	0R36	SMD Current Sense Resistor, 0.36 ohm, RL73 Series, 1206 [3216 Metric], 500 mW, ± 1%, Thick Film, TE Connectivity	RLP73K2R36FTDF	resistors.SVNDblib	TE Connectivity	RLP73K2R36FTDF	Farnell	2805285	Mouser	279-RLP73K2R36FTDF	2			
#	R6, R9	0R15	SMD Current Sense Resistor, 0.15 ohm, ERJ8BS Series, 1206 [3216 Metric], 330 mW, ± 1%, Thick Film, Panasonic	ERJ8BSFR15V	resistors.SVNDblib	Panasonic	ERJ8BSFR15V	Farnell	1717867	Mouser	667-ERJ-8BSFR15V	2			
#	R11	976k	SMD thick film resistor 976k 0603 1% 100 mW Panasonic	ERJ3KF9763V	resistors.SVNDblib	Panasonic	ERJ3KF9763V	Digi-Key	P976KHCT-ND	Mouser	667-ERJ-3KF9763V	1			
#	R12	3k92	SMD thick film resistor 3k92 0603 1% 100 mW Panasonic	ERJ3KF3921V	resistors.SVNDblib	Panasonic	ERJ3KF3921V	Farnell	2303178	Mouser	667-ERJ-3KF3921V	1			
#	R13	20k	SMD thick film resistor 20k 0603 1% 100 mW Panasonic	ERJ3KF2002V	resistors.SVNDblib	Panasonic	ERJ3KF2002V	Digi-Key	P20.0KHCT-ND	Mouser	667-ERJ-3KF2002V	1			
#	R15	330k	SMD thick film resistor 330k 0603 1% 100 mW Panasonic	ERJ3KF3303V	resistors.SVNDblib	Panasonic	ERJ3KF3303V	Digi-Key	P330KHCT-ND	Mouser	667-ERJ-3KF3303V	1			
#	R16	470k	SMD thick film resistor 470k 0603 1% 100 mW Panasonic	ERJ3KF4703V	resistors.SVNDblib	Panasonic	ERJ3KF4703V	Digi-Key	P470KHCT-ND	Mouser	667-ERJ-3KF4703V	1			
#	R17, R18	220R	SMD thick film resistor 220R 0603 1% 100 mW Panasonic	ERJ3KF2200V	resistors.SVNDblib	Panasonic	ERJ3KF2200V	Farnell	2303090	Mouser	667-ERJ-3KF2200V	2			
#	U1	NCP161ASN330T1G	Fixed LDO Voltage Regulator, 1.9V to 5.5V, 225mV drop, 3.3V/450mA out, SOT-23-5, ON Semiconductor	NCP161ASN330T1G	ics.SVNDblib	ON Semiconductor	NCP161ASN330T1G	Farnell	3131472	Mouser	863-NCP161ASN330T1G	1			