

Project:

BDK_power_shield.PrjPcb

Source Data From:

BDK_power_shield.PrjPcb

Project:

BDK_power_shield.PrjPcb

Variant:

standard_board

Report Date:

5/29/2018

7:08:40 PM

Print Date:

5/29/2018

19:08:46

#	Designator	Comment	Description	LibRef	SourceLibraryName	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Supplier 2	Supplier Part Number 2	Quantity
1.	C1, C3	100 nF	MLC capacitor 100nF 16V X7R 5% Murata	GRM188R71C104JA01D	capacitors.SVNDbLib	Murata	GRM188R71C104JA01D	Digi-Key	490-9731-1-ND	Mouser	81-GRM39X104J016	2
2.	C5, C6	10 µF	MLC capacitor 10µF 25V X7S 10% Murata	GRM21BC71E106KE11L	capacitors.SVNDbLib	Murata	GRM21BC71E106KE11L	Digi-Key	490-10496-1-ND	Mouser	81-GRM21BC71E106KE1L	2
3.	CON3, CON4	SSW-108-03-G-S	PTH vertical receptacle 8 pins 2.54mm Samtec	SSW-108-03-G-S	connectors.SVNDbLib	Samtec	SSW-108-03-G-S	Digi-Key	SSW-108-03-G-S-ND	Samtec	SSW-108-03-G-S	2
4.	C2	4µ7	MLC capacitor 4µ7 100V X7S 10% soft termination Murata	GRJ32DC72A475KE11L	capacitors.SVNDbLib	Murata	GRJ32DC72A475KE11L	Digi-Key	490-10955-1-ND	Mouser	81-GRJ32DC72A475KE1L	1
5.	C4	2n2	MLC capacitor 2n2 50V C0G 5% Murata	GRM1885C1H222JA01D	capacitors.SVNDbLib	Murata	GRM1885C1H222JA01D	Digi-Key	490-1459-1-ND	Mouser	81-GRM1885C1H222JA01	1
6.	C7	12 pF	MLC capacitor 12pF 50V C0G 5% Murata	GRM1885C1H120JA01D	capacitors.SVNDbLib	Murata	GRM1885C1H120JA01D	Digi-Key	490-1405-1-ND	Mouser	81-GRM39C120J50	1
7.	CON1	691 322 310 002	PCB right angle connector 2 pins 3.81 mm pitch Würth Elektronik	691322310002	connectors.SVNDbLib	Würth Elektronik	691322310002	Farnell	1642012	Mouser	710-691322310002	1
8.	CON2	SSW-110-03-G-S	PTH vertical receptacle 10 pins 2.54mm Samtec	SSW-110-03-G-S	connectors.SVNDbLib	Samtec	SSW-110-03-G-S	Digi-Key	SSW-110-03-G-S-ND	Samtec	SSW-110-03-G-S	1
9.	CON5	SSW-106-03-G-S	PTH vertical receptacle 6 pins 2.54mm Samtec	SSW-106-03-G-S	connectors.SVNDbLib	Samtec	SSW-106-03-G-S	Digi-Key	SSW-106-03-G-S-ND	Samtec	SSW-106-03-G-S	1
10.	D1	NSR0340H	Schottky diode 40V 250mA low Vf SOD323 ON Semiconductor	NSR0340HT1G	diodes.SVNDbLib	ON Semiconductor	NSR0340HT1G	Digi-Key	NSR0340HT1GOSCT-ND	Mouser	863-NSR0340HT1G	1
11.	D2	SMBJ24A	TVS 24V 600W SMB unidirectional ON Semiconductor	SMBJ24A	diodes.SVNDbLib	ON Semiconductor	SMBJ24A	Digi-Key	SMBJ24AFSCT-ND	Mouser	512-SMBJ24A	1
12.	D3	GREEN	SMD LED diode 30 mA GREEN 0603 Würth Elektronik	150060GS75000	diodes.SVNDbLib	Würth Elektronik	150060GS75000	Digi-Key	732-4971-1-ND	Mouser	710-150060GS75000	1
13.	D4	MBRS2040L	Schottky diode 40 V 2 A SMB ON Semiconductor	MBRS2040LT3G	diodes.SVNDbLib	ON Semiconductor	MBRS2040LT3G	Farnell	1459072	Mouser	863-MBRS2040LT3G	1
14.	J1	694 106 105 102	DC power male right angle SMD jack 2.05x5.5 Würth Elektronik	694106105102	connectors.SVNDbLib	Würth Elektronik	694106105102	Digi-Key	732-5928-1-ND	Mouser	710-694106105102	1
15.	L1	4µ7	WE TPC power inductor SMD 4µ7 1.55 A Würth Elektronik	744043004	inductors.SVNDbLib	Würth Elektronik	744043004	Digi-Key	732-1099-1-ND	Mouser	710-744043004	1
16.	R1	100R	SMD thick film resistor 100R 0603 1% 100 mW Panasonic	ERJ3EKF1000V	resistors.SVNDbLib	Panasonic	ERJ3EKF1000V	Farnell	2303059	Mouser	667-ERJ-3EKF1000V	1
17.	R2	10k	SMD thick film resistor 10k 0603 1% 100 mW Panasonic	ERJ3EKF1002V	resistors.SVNDbLib	Panasonic	ERJ3EKF1002V	Digi-Key	P10.0KHCT-ND	Mouser	667-ERJ-3EKF1002V	1
18.	R3	31R6	SMD thick film resistor 31R6 0603 1% 100 mW Panasonic	ERJ3EKF31R6V	resistors.SVNDbLib	Panasonic	ERJ3EKF31R6V	Farnell	2303014	Mouser	667-ERJ-3EKF31R6V	1
19.	R4	7k5	SMD thick film resistor 7k5 0603 1% 100 mW Panasonic	ERJ3EKF7501V	resistors.SVNDbLib	Panasonic	ERJ3EKF7501V	Digi-Key	P7.50KHCT-ND	Mouser	667-ERJ-3EKF7501V	1
20.	U1	NCV890100	1.2 A 2 MHz Automotive Buck Switching Regulator ON Semiconductor	NCV890100PDR2G	ics.SVNDbLib	ON Semiconductor	NCV890100PDR2G	Digi-Key	NCV890100PDR2GOSTR-ND	Mouser	863-NCV890100PDR2G	1

ON

Materials

ON

Technical Support Center