



Bill of Materials for the BDK-DCDC-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C3	2	MLC Capacitor	100nF	5%		Murata	GRM188R71C104JA01D	Yes	Yes
C5, C6	2	MLC Capacitor	10uF	10%		Murata	GRM21BC71E106KE11L	Yes	Yes
CON3, CON4	2	PTH Vertical Receptacle				Samtec	SSW-108-03-G-S	Yes	Yes
C2	1	MLC Capacitor	4uF	10%		Murata	GRJ32DC72A475KE11L	Yes	Yes
C4	1	MLC Capacitor	2n2	5%		Murata	GRM1885C1H222JA01D	Yes	Yes
C7	1	MLC Capacitor	12pF	5%		Murata	GRM1885C1H120JA01D	Yes	Yes
CON1	1	PCB right angle connector				Würth Elektronik	691322310002	Yes	Yes
CON2	1	PTH Vertical Receptacle				Samtec	SSW-110-03-G-S	Yes	Yes
CON5	1	PTH Vertical Receptacle				Samtec	SSW-106-03-G-S	Yes	Yes
D1	1	Schottky diode				ON Semiconductor	NSR0340HT1G	No	Yes
D2	1	TVS 24V 600 W SMB unidirectional				ON Semiconductor	SMBJ24A	No	Yes
D3	1	SMD LED diode 30mA GREEN			0603	Würth Elektronik	150060GS75000	Yes	Yes
D4	1	Schottky diode				ON Semiconductor	MBR3204DLT3G	No	Yes
J1	1	DC power male right angle SMD jack				Würth Elektronik	694106105102	Yes	Yes
L1	1	WE TPS power inductor SMD	4u7			Würth Elektronik	744043004	Yes	Yes
								Yes	Yes
R1	1	SMD thick film resistor	100R	1%	0603	Panasonic	ERJ3EKF1000V	Yes	Yes
R2	1	SMD thick film resistor	10k	1%	0603	Panasonic	ERJ3EKF1002V	Yes	Yes
R3	1	SMD thick film resistor	31R6	1%	0603	Panasonic	ERJ3EKF31R6V	Yes	Yes
R4	1	SMD thick film resistor	7k5	1%	0603	Panasonic	ERJ3EKF7501V	Yes	Yes
U1	1	1.2 A 2MHz Automotive Buck Switching	1.2A			ON Semiconductor	NCV890100PDR2G	Yes	Yes
								No	Yes