



Bill of Materials for the SEC-6D6KW-OBC-SIC-GEVB\_PFC Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C16, C30, C32, C34	4	MLCC 0805-50V-100pFK-NP0	100pF		0805	WURTH	885012007057	Yes	Yes
C17	1	MLCC 0805-25V-225M-X7R	2.2uF		0805	WURTH	885012207079	Yes	Yes
C18, C25, C28, C35	4	MLCC 0805-50V-103M-X7R	.01uF		0805	WURTH	885012207092	Yes	Yes
C20	1	MLCC 0805-50V-473M-X7R	.047uF		0805	WURTH	885012207096	Yes	Yes
C21	1	MLCC 0805-25V-474M-X7R'	.47uF		0805	WURTH	885012207076	Yes	Yes
C22	1	MLCC 0805-25V-104M-X7R'	.1uF		0805	WURTH	885012207072	Yes	Yes
C23, C26, C27, C36	4	MLCC 0805-50V-471J-NP0	470pF		0805	WURTH	885012007061	Yes	Yes
C24	1	MLCC 0805-25V-224M-X7R'	.22uF		0805	WURTH	885012207074	Yes	Yes
C29, C31, C33, C40, C43, C46	6	MLCC 0805-50V-102M-X7R	1000pF		0805	WURTH	885012207086	Yes	Yes
C39, C41, C42, C44, C45, C47	6	MLCC 0805-50V-222M-X7R	2200pF		0805	WURTH	885012207088	Yes	Yes
C92	1	MLCC 0805-50V-103M-X7R	.01uF		0805	WURTH	885012207092	Yes	Yes
C37	1	MLCC 1206-25V-106M-X7R	10uF		1206	WURTH	885012208069	Yes	Yes
D1	1	Schottky Diode 0.2A 100V, SOT23'				ON Semiconductor	SBAV99LT3G	No	Yes
L22	1	Chip Inductor 2016-1uH'				WURTH	74438343010	Yes	Yes
L22	1	Chip Inductor 2016-1uH Automotive				TDK	TFM201610ALMA1R0MTAA	Yes	Yes
L22	1	Chip Inductor 2016-1uH				MURATA	DFE2MCAH1R0MJ0L	Yes	Yes
Q23	1	MOSFET 60V 7.5Ω, SOT23				ON Semiconductor	2V7002LT1G	No	Yes
R1, R39	2	Chip resister 0805 10Kohm-J	10K		0805	Any		Yes	Yes
R2	1	Chip resister 0805 470ohm-J	470ohm-J		0805	Any		Yes	Yes
R3, R4, R20, R21	4	Chip resister 1206 1Mohm-J	1M		1206	Any		Yes	Yes

R15, R16, R33, R34	4	Chip resister 0805 12.4Kohm-F	4K		0805	Any		Yes	Yes
R17, R18, R19	3	Chip resister 0805 510ohm-J	510ohm-J		0805	Any		Yes	Yes
R22	1	Chip resister 0805 200Kohm-J	200K		0805	Any		Yes	Yes
R23	1	Chip resister 0805 36Kohm-J	36K		0805	Any		Yes	Yes
R26	1	Chip resister 0805 24Kohm-J	24K		0805	Any		Yes	Yes
R27, R28, R29	3	Chip resister 1206 2Mohm-J	2M		1206	Any		Yes	Yes
R30	1	Chip resister 0805 75Kohm-J	75K		0805	Any		Yes	Yes
R31	1	Chip resister 0805 33Kohm-J	33K		0805	Any		Yes	Yes
R32	1	Chip resister 0805 39Kohm-J	39K		0805	Any		Yes	Yes
R35	1	Chip resister 0805 8.2Kohm-F	2K		0805	Any		Yes	Yes
R36, R37, R38	3	Chip resister 0805 18Kohm-J	18K		0805	Any		Yes	Yes
R40	1	Chip resister 0805 47Kohm-J	47K		0805	Any		Yes	Yes
R41, R42, R43, R44, R45, R46	6	Chip resister 0805 470ohm-J	470ohm-J		0805	Any		Yes	Yes
U20	1	IC 3CH ICCM PFC Controller, QFP32	3CH ICCM PFC Controller,			ON Semiconductor	FAN9673Q	No	Yes