



Bill of Materials for the LV5012MD2GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Metallized Polyester Film Capacitor	0.033uF/275VAC	10%	Radial	OKAYA	LE333	Yes	Yes
C2	1	Capacitor,Ceramic,X7R	0.1uF/630V	10%	Radial	MURATA	RDER72J104K8K1C11B	Yes	Yes
C3	1	Capacitor,Ceramic,X7T	0.33uF/450V	10%	Radial	MURATA	RDED72W334K5B1C13B	Yes	Yes
C4	1	Capacitor,Ceramic,X7R	0.1uF/630V	10%	Radial	MURATA	RDER72J104K8K1C11B	Yes	Yes
C5	1	Capacitor,Ceramic,CH	150pF/50V	10%	0603	MURATA	GRM1882CH1H151JA01	Yes	Yes
C6	1	Capacitor,Ceramic,X7R	0.1uF/50V	10%	0603	MURATA	GRM188R71H104KA93D	Yes	Yes
C7	1	Capacitor,Ceramic,X7R	1uF/25V	10%	0603	MURATA	GRM188R71E105KA12D	Yes	Yes
C8	1	Capacitor,Ceramic,X7R	4.7uF/50V	10%	1206	MURATA	GRM31CR71H475KA	Yes	Yes
C9	1	Aluminum Electrolytic Capacitor	220uF/80V	20%	Radial	Rubycon	80ZLJ220	Yes	Yes
D1	1	Diode,Bridge	0.8A,600V	-	1Z(SMD)	SHINDENGEN	S1ZB60	Yes	Yes
D3	1	Diode	0.2A,250V	-	SOD-123	ON Semiconductor	MMSD103T1G	Yes	Yes
D4	1	Diode,Ultrafast	2A,400V	-	SMB	ON Semiconductor	MURS240T3G	Yes	Yes
F1	1	Metal Film Fuse Resistor	10Ω,1W	5%	Axial	Panasonic	ERQ1ABJ100	Yes	Yes
L1	1	Jumper	0	-	-	-	-	-	-
L2	1	Power Inductor	1.0mH	10%	Radial	Sumida	RCH895NP-102K	Yes	Yes
Q1	1	N-Channel Power MOSFET	500V,2.6A	-	DPAK	ON Semiconductor	NDD03N50Z	Yes	Yes
R1	1	Metal Film Resistor	15Ω,2W	5%	Axial	Panasonic	ERG2SJ150	Yes	Yes
R2	1	Jumper	0	-	-	-	-	-	-
R3	1	Chip Resistor	680kΩ	5%	1206	Rohm	KTR18EZPJ684	Yes	Yes
R4	1	Chip Resistor	5.6kΩ	1%	0603	KOA	RK73H1JTTD562	Yes	Yes
R5	1	Chip Resistor	680kΩ	5%	1206	Rohm	KTR18EZPJ684	Yes	Yes
R6	1	Chip Resistor	27kΩ	1%	0603	KOA	RK73H1JTTD273	Yes	Yes
R7	1	Anti-surge Chip Resistor	1.0kΩ	5%	1206	Rohm	ESR18EZPJ102	Yes	Yes
R8	1	Anti-surge Chip Resistor	12kΩ	5%	1206	Rohm	ESR18EZPJ123	Yes	Yes
R9	1	Jumper	0	-	0603	KOA	RK73Z1JTTD000	Yes	Yes
R11	1	Chip Resistor	4.7MΩ	5%	0603	Panasonic	ERJ3GEYJ475V	Yes	Yes
R12	1	Chip Resistor	100kΩ	5%	0603	KOA	RK73B1JTTD104	Yes	Yes
R13	1	Chip Resistor	22Ω	5%	0603	KOA	RK73B1JTTD220	Yes	Yes
R14	1	Jumper	0	-	0603	KOA	RK73Z1JTTD000	Yes	Yes
R16	1	Low Ohmic Chip Resistor	0.82	1%	0805	Rohm	MCR10EZHLR820	Yes	Yes
R17	1	Low Ohmic Chip Resistor	0.82	1%	0805	Rohm	MCR10EZHLR820	Yes	Yes
R18	1	Chip Resistor	39kΩ	1%	0603	KOA	RK73B1JTTD393	Yes	Yes
R21	1	Metal Film Resistor	1kΩ,1W	5%	Axial	Panasonic	ERG1SJ102	Yes	Yes
R23	1	Metal Film Resistor	15Ω,2W	5%	Axial	Panasonic	ERG2SJ150	Yes	Yes
T1	1	Transformer	-	-	RM6	WE-Midcom	750341971 Rev.01	Yes	Yes
U1	1	LED Driver	-	-	MFP14S	ON Semiconductor	LV5012MD	No	Yes
VR1	1	Varistor	AC175V	-	Radial	Nippon Chemi-con	TND05V-271KB	Yes	Yes