



Bill of Materials for the NCV6324BGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	3 MHz, 2 A, Synchronous Buck Converter	-	-	WDFN-8 2.0 x 2.0 x 0.75 mm	On Semiconductor	NCV63xyB/C	No	Yes
Cin1	1	MLCC Cap 10V, 10uF, X5R ±20%	10V	20%	805	MuRata	GRM21BR61A106KE19	Yes	Yes
Cin2	1	MLCC Cap 6.3V, 10uF, X5R ±20%	6.3V	20%	1210	MuRata	GRM32ER60J107ME20	Yes	Yes
Co1	1	MLCC Cap 6.3V, 10uF, X5R ±20%	6.3V	20%	603	MuRata	GRM188R60J106ME47	Yes	Yes
L	1	Power Choke 1.0uH, ±30%, 2450 mA, 30 m	2450mA	30%		MuRata	LQH44PN1R0NPO	Yes	Yes
Ren, Rpg	2	Thick Film Chip Resistors, 1 M(ohm), ±5%, 0.1 W	1M(Ohm)	5%	603	Panasonic	ERJ3GEYJ105V	Yes	Yes
R1	1	Thick Film Chip Resistors, 220 k(ohm) , ±1%, 0.1 W	220k(ohm)	1%	603	Panasonic	ERA3AEB224V	Yes	Yes
R2	1	Thick Film Chip Resistors, 110 k(ohm) , ±1%, 0.1 W	110k(ohm)	1%	603	Panasonic	ERA3AEB114V	Yes	Yes
Cfb	1	MLCC, 15 pF, 50 V, 0603	15pF	-	603	Panasonic	ECJ1VC1H150J	Yes	Yes
Rfb	1	Thick Film Chip Resistors, 20 (ohm), ±1%, 0.1 W	20(ohm)	1%	603	Panasonic	ERA3AEB200V	Yes	Yes