



## Bill of Materials for the NCV6323DGEVB 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	NCV63xyC/D	No	Yes
Cin1	1	MLCC Cap 10 V, 10uF, X5R, ±20%	10uf	20%	805	muRata	GRM21BR61A106KE19	Yes	Yes
Cin2	1	MLCC Cap 6.3 V, 100uF, X5R, ±20%	100uf	20%	1210	muRata	GRM32ER60J107ME20	Yes	Yes
Co1	1	MLCC Cap 6.3 V, 10uF, X5R, ±20%	10uf	20%	0603	muRata	GRM188R60J106ME47	Yes	Yes
L	1	Power Choke 1.0uH, ±30%, 2450 mA, 30 m(OHMS)	1uh	30%	4.0 x 3.5 x 1.65 mm	muRata	LQH44PN1R0NP0	Yes	Yes
Ren, Rpg	2	Thick Film Chip Resistors, 1M(OHMS) , ±5%, 0.1 W	1M(OHM)	5%	0603	Panasonic	ERJ3GEYJ105V	Yes	Yes
R1	1	Thick Film Chip Resistors, 220k(OHMS) , ±1%, 0.1 W	220k(OHM)	1%	0603	Panasonic	ERA3AEB224V	Yes	Yes
R2	1	Thick Film Chip Resistors, 110k(OHMS) , ±1%, 0.1 W	110k(OHM)	1%	0603	Panasonic	ERA3AEB114V	Yes	Yes
Cfb	1	MLCC, 15 pF, 50 V, 0603	50V	-	0603	Panasonic	ECJ1VC1H150J	Yes	Yes
Rfb	1	Thick Film Chip Resistors, 20(OHMS) , ±1%, 0.1 W	20(OHM)	1%	0603	Panasonic	ERA3AEB200V	Yes	Yes