



## Bill of Materials for the NCS29001DGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Aluminum Electrolytic Capacitor	47uF	20%	16mm diameter	Panasonic	EEV-EB2C470SM	Yes	Yes
C2	1	Ceramic Chip Capacitor	10uF	10%	1206	TDK	C3216X5R1H106K160AB	Yes	Yes
C5, C7	2	Ceramic Chip Capacitor	0.1uF	10%	1206	TDK	C3216X7R1H104K	Yes	Yes
C6, C8	2	Ceramic Chip Capacitor	1uF	20%	1206	TDK	C3216X7R1C105M	Yes	Yes
C4	0	Aluminum Electrolytic Capacitor	Open	-	5 mm lead spacing	-	-	-	-
C3	1	Ceramic Chip Capacitor	3.9nF	5%	0805	TDK	C2012C0G1H392J060AA	Yes	Yes
C11	1	Ceramic Chip Capacitor	20pF	5%	0805	AVX	08051A200JAT2A	Yes	Yes
L1	1	High Current Inductor	47uH	15%	14.1mm x 13.1mm	Cooper Bussman	HCR-470-R	Yes	Yes
R1	1	Through Hole Resistor	499k	1%	1 mm lead spacing	Yageo	MFR-25FBF52-499k	Yes	Yes
R2	1	Chip Resistor	4.99k	1%	0805	Panasonic	ERJ-6ENF4991V	Yes	Yes
R3	1	Chip Resistor	3.9R	1%	1206	Panasonic	ERJ-8RQF3R9V	Yes	Yes
R5	1	Chip Resistor	576R	0.01	0805	Panasonic	ERJ-6ENF5760V	Yes	Yes
R6	1	Chip Resistor	715k	0.01	0805	Panasonic	ERJ-6ENF7153V	Yes	Yes
R7	1	Chip Resistor	63.4k	0.01	0805	Panasonic	ERJ-6ENF6342V	Yes	Yes
R9, R11	0	Chip Resistor	Open	-	1210	-	-	-	-
R12	1	Chip Resistor	0.075R	0.01	1206	Panasonic	ERJ-L08UF75MV	Yes	Yes
R13	0	Chip Resistor	Open	-	0805	-	-	-	-
R14	1	Chip Resistor	0	0.01	0805	Panasonic	ERJ-6GEY0R00V	Yes	Yes
<b>M1, M2</b>	<b>2</b>	<b>Power MOSFET N-Channel</b>	-	-	<b>DPAK</b>	<b>ON Semiconductor</b>	<b>NDD05N50Z</b>	<b>No</b>	<b>Yes</b>
<b>D1</b>	<b>1</b>	<b>Ultra-Fast Power Rectifier</b>	-	-	<b>Axial Lead-2</b>	<b>ON Semiconductor</b>	<b>MUR460G</b>	<b>No</b>	<b>Yes</b>
J5, J6, J8, J11, J12, J17, J19, J21	8	PCB Test Terminal, Red	-	-	Hole diameter 1.7mm	Keystone	5005	Yes	Yes
J1, J4	2	Header 2 pin, 0.1 inch spacing	-	-	0.100 x 2	TE Connectivity	647676-2	Yes	Yes
J24	1	Header 4 pin, 0.1 inch spacing	-	-	0.100 x 4	TE Connectivity	647676-4	Yes	Yes
J27, J28	2	PCB Shorting Link	-	-	GND_Strap	Harwin	D3082-46	Yes	Yes
<b>U1</b>	<b>1</b>	<b>NCS29001</b>	-	-	<b>SOIC14</b>	<b>ON Semiconductor</b>	<b>NCS29001DR2G</b>	<b>No</b>	<b>Yes</b>