

Bill of Materials for the NCV7692DRLV1GEVB Evaluation Board



Designator	QTY	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C5	2	Ceramic Capacitor SMD	100NF, 50V, X7R	10%	CAP0603	KEMET	C0603C104K5RAC	Yes	Yes
VS	1	TestPIN True Hole	RED	-	H1.0	VERO	20-313137	Yes	Yes
FLTS, PWM	2	TestPIN True Hole	White	-	H1.0	VERO	20-313139	Yes	Yes
B, C, FB, GND, NTC	5	TestPIN True Hole	Black	-	H1.0	VERO	20-2137	Yes	Yes
D1	1	Shottky Diode	40V, 2A	-	SMB	ON Semiconductor	MBRS2040LT3G	No	Yes
ZD1	1	Zener Diode	4.7V, 200mW	-	SOD323	ON Semiconductor	MM3Z4V7T1G	No	Yes
VBAT	1	DC Power Connector	2.1mm, 2A, 12V	-	DC10AS	CLIFF ELECTRONIC	DC-10AS+DCPP1	Yes	Yes
U1	1	Single current LED controller	NCV7692	-	SOIC8	ON Semiconductor	NCV7692DQR2G	No	Yes
LED1, LED2	2	High Brightnes LED	Vf = 2.8V; Imax = 1.5A, 1W	-	CREE-XPGBWT	CREE	CREE-XPGBWT	Yes	Yes
OPEN, SHORT	2	SMD Jumper 1x2	JUMPER2_SMD_SHO RT	-	X2APH	SAMTEC	TSM-102-04-T-SV	Yes	Yes
PTC	1	Thermistor	85°C	-	R0603	EPCOS	B59641A0085A062	Yes	Yes
Q1	1	Transistor NPN	3A / 100V / 15W	-	DPAK-369C	ON Semiconductor	NSV1C301ET4G	No	Yes
R1	1	SMD Resistor	300mR, 250mW	1%	R1206	Bourns	CRL1206-FW-R300ELF	Yes	Yes
R2, R3	2	SMD Resistor	10k, 0603, 100mW	1%	R0603	PHYCOMP	RC0603FR	Yes	Yes
R4	1	SMD Resistor	0Ω	-	R1206	WELWYN	WCR 1206 0R0	Yes	Yes
R10	1	SMD Resistor	1k, 0603, 100mW	1%	R0603	WISHAY	CRCW06031K00FKEA	Yes	Yes
R12	1	SMD Resistor	15k, 0603, 100mW	1%	R0603	WELWYN	ASC0603-15KFT5	Yes	Yes
R13, R14	2	SMD Resistor	8k2, 0603, 63mW	1%	R0603	WISHAY	CRCW06038K20FKEAHP	Yes	Yes
SCOPEGND	1	Wire Bridge	SCOPEGND	-	SCOPEGND	AMPHENOL	FCI - 75160-105-36LF	Yes	Yes
Accessories:									
Foil	1	Thermal Foil	48x48x0.127	-	-	FISCHER ELEKTRONIK	WLFT 404 48 X 48	Yes	Yes
heatsink	1	Heat Sink	45x45x25	-	-	FISCHER ELEKTRONIK	ICK S 45 X 45 X 25	Yes	Yes
SC1, SC2, SC3, SC4	4	Screw	steel M3	-	4mm	TR FASTENINGS	DT000376	Yes	Yes

