



## Bill of Materials for the NTMFS4854NSGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS Compliant
VIN, GND VOUT, GND	4	CON, TH, 6PIN, PWR, SCREW TERMINAL, 30 AMP	-	-	JTHI_TERM2R6PS	Keystone Electronics	8196	No	Yes
DRAIN	1	Test Point, Blue, Multipurpose	-	-	Thruhole	Keystone Electronics	5127	No	Yes
GATE	1	Test Point, White, Multipurpose	-	-	Thruhole	Keystone Electronics	5012	No	Yes
SOURCE	1	Test Point, Purple Multipurpose	-	-	Thruhole	Keystone Electronics	5129	No	Yes
VDD	1	Test Point, Red, Multipurpose	-	-	Thruhole	Keystone Electronics	5010	No	Yes
VMEAS	1	Test Point, Green, Multipurpose	-	-	Thruhole	Keystone Electronics	5126	No	Yes
GND, GND	2	Test Point, Black, Multipurpose	-	-	Thruhole	Keystone Electronics	5011	No	Yes
KELVIN	1	Test Point, Green, Multipurpose	DNP	-	Thruhole	Keystone Electronics	5126	No	Yes
KS	1	Test Point, White, Multipurpose	DNP	-	Thruhole	Keystone Electronics	5012	No	Yes
C4, C6, C11	3	Ceramic Chip Capacitor, 25 V, X7R	0.1uF	10%	0603	Murata	GRM188R71E104KA01D	Yes	Yes
C5, C7	2	Ceramic Chip Capacitor, 25 V, X7R	0.01uF	10%	0603	Murata	GRM188R71E103KA01D	Yes	Yes
R1	1	RES 402K OHM 1/10W 1% 0603 SMD	402 kΩ	1%	0603	Bourns	CR0603-FX-4023ELF	Yes	Yes
R2	1	SMT Resistor, 1/10 W, 0603	DNP	-	0603	-	-	Yes	-
R3	1	SMT Resistor, 1/10 W, 0805, 0.1%	30R0	0.001	0805	TE Connectivity	2-1614884-8	Yes	Yes
Q1	1	SenseFET	-	-	SO-8 FL	ON Semiconductor	NTMFS4854NS	No	Yes
U1	1	Current Mirror and Switch Controller for SenseFET	-	-	TDFN-8	ON Semiconductor	CAT2300	No	Yes
EN_J	1	Jumper	-	-	Thruhole	Tyco Electronics/AMP	5-826629-0	Yes	Yes

Evaluation Board is made of FR4 0.062", Lead Free HASL, 1 oz copper