



Bill of Materials for the NCP45491MNGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
BG_REF_OUT, BS_IN1, BS_IN2, BS_IN3, BS_IN4, BS_OK, BS_REF_CM, REF_IN, DIFF_OUTN, DIFF_OUTP, GND2, GND3, GND4, GND5, GND6, SH_IN1, SH_IN2, SH_IN3, SH_IN4, SH_O1, SH_O2, SH_O3, SH_O4	23	Test Point	Test loop		Test_Point	Keystone Electronics	5009	YES	YES
C1, C2, C3, C4, C5	5	Capacitor	No placement		SMD_0805	n/a	n/a	YES	YES
C6, C7, C8, C10, C11	5	Capacitor	0.1u		SMD_0805	Murata Electronics	GC0218R71H104KA37K	YES	YES
C9	1	Test Point	0.01u		SMD_0805	Samsung Electro-Mechanics	CL21B103QBANNNC	YES	YES
DIFF_OUT_N, DIFF_OUT_P, EN, MUX_SEL	4	Jumper	SMB / SMA Straight Connector		SMB_V-RH5	Molex	733910060	YES	YES
GND7, GND8, GND9, GND10, GND11, GND12, LOAD1, LOAD2, LOAD3, LOAD4, VBUS1, VBUS2, VCC	13	6x2 Header	Banana Con		Banana_Connector	Cinch Connectivity Solutions Johnson	111-2223-001	YES	YES
J1, J2, J5, J8, J20, J21	6	Interconnect	3 pins		10th" header	Würth Electronics Inc	61300311121	YES	YES
J3, J4, J6, J7, J10, J100	6	Test Point	10th" header		10th" header	Würth Electronics Inc	61300211121	YES	YES
R12, R18	2	Resistor	118 kΩ		SMD_1206	Panasonic	ERA-SEN1183V	YES	YES
R15, R20, R16, R21	4	Resistor	2 kΩ		SMD_1206	Panasonic	ERA-8AE8202V	YES	YES
Rsense1, Rsense2, Rsense3, Rsense4	4	Resistor	5 mΩ		SMD_1206	Rohm Semiconductor	PMR18EZPFU5L00	YES	YES
R1, R2, R3, R4	4	Resistor	100 Ω		SMD_1206	Panasonic	ERA-8AE8101V	YES	YES
R5, R6, R8	3	Resistor	66.5 kΩ		SMD_1206	Yageo	RC1206FR-0766K5L	YES	YES
R9	1	Resistor	10 kΩ		SMD_1206	Stackpole Electronics	RNCP1206FTD10K0	YES	YES
R14, R23, R24	3	Resistor	0 Ω		SMD_1206	Stackpole Electronics	HCJ1206ZTOR00	YES	YES
R7, R25	2	Resistor	100 kΩ		SMD_1206	Rohm Semiconductor	ESR18EZPJ104	YES	YES
R13, R19	2	Resistor	57.6 kΩ		SMD_1206	Vishay Dale	CRCW120657K6FKEA	YES	YES
R11, R26	2	Resistor	12.4 Ω		SMD_1206	Yageo	RC1206FR-07124RL	YES	YES
R10, R17	2	Resistor	25 Ω		SMD_1206	Vishay Dale	CRCW12062R49FKEAHP	YES	YES
U1	1	N/A	N/A		NCP45491	ON Semiconductor	NCP45491	YES	YES