



Bill of Materials for the NCP45491PMNGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
BS_REF_001, BS_IN4, BS_IN2, BS_IN3, BS_IN4, BS_IN5, BS_IN6, BS_OK, BS_REF, CM_REF_IN, DIFF_OUTN, DIFF_OUTP, GND1, GND2, GND3, GND4, GND5, SH_IN1, SH_IN2, SH_IN3, SH_IN4, SH_IN5, SH_IN6, SH_O1, SH_O2, SH_O3, SH_O4, SH_O5, SH_O6	29	Test Points	n/a		Test_Point	Keystone Electronics	5009	YES	YES
C1, C2, C3, C4, C5, C10, C13	7	SMD capacitor	Do not populate		SMD_0805	n/a	n/a	YES	YES
C6, C7, C8, C11, C12, C14, C15	7	SMD capacitor	0.1u		SMD_0805	Murata Electronics	GCM21BR71H104KA37K	YES	YES
C9	1	SMD capacitor	0.021u		SMD_0805	Samsung Electro-Mechanics	CL21B103KBANNNC	YES	YES
DIFF_OUT_N, DIFF_OUT_P, EN, MUX_SEL	4	SMB / SMA Straight Connector	SMA / SMB		SMB_V-RJ45	Molex	733910060	YES	YES
GND6, GND7, GND8, GND9, GND10, GND11, GND12,	20	Interconnect	Banana Jack, female		Bannana_Connector	Cinch Connectivity	111-2223-001	YES	YES
J1	1	10th inch header	Leave open		SMD_2	n/a	n/a	YES	YES
J2, J3, J6, J11, J12, J13, J14	7	3 way jumper	3 pin 10" header		HEADER_3	Würth Electronics Inc	61300311121	YES	YES
J4, J5, J7, J8, J9, J10	6	10th inch header	2 pin 10" header		header_2	Würth Electronics Inc	61300211121	YES	YES
R7, R1, R2	3	SMD resistor	0ohm		RES1206	Stackpole Electronics	HCI1206ZTOR00	YES	YES
Rsense1, Rsense2, Rsense3, Rsense4, Rsense5, Rsense6	6	SMD resistor	5mohm		RES1206	Rohm Semiconductor	PMR18E2PFU5L00	YES	YES
R29, R16	2	SMD resistor	118kohm		RES1206	Panasonic	ERJ-8ENF1183V	YES	YES
R17, R32	2	SMD resistor	57.6kohm		RES1206	Vishay Dale	CRCW120657K6FKEA	YES	YES
R25, R26	2	SMD resistor	78kohm		RES1206	Yageo	RC1206FR-0778K7L	YES	YES
R30, R19, R20, R33, R27, R28	6	SMD resistor	2kohm		RES1206	Panasonic	ERA-8AE8202V	YES	YES
R10, R11, R18, R12, R13, R21	6	SMD resistor	100ohm		RES1206	Panasonic	ERA-8AE8101V	YES	YES
R8, R9	2	SMD resistor	100kohm		RES1206	Rohm Semiconductor	ESR18E2PJ104	YES	YES
R3, R4, R5	3	SMD resistor	66.5kohm		RES1206	Yageo	RC1206FR-0766K5L	YES	YES
R6	1	SMD resistor	10kohm		RES1206	Stackpole Electronics	RNCP1206FTD10K0	YES	YES
R14, R15, R22, R23, R24, R31	6	Resistor	2.49ohm		RES1206	Vishay Dale	CRCW12062R49FKEAHP	YES	YES
U1, U2	2	NCP45491	NCP45491			ON Semiconductor	NCP45491	NO	YES