



Bill of Materials for the NCP81239LOADGEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C2	1	CAP CER 1UF 25V X5R 0603	1 uF	10%	0603	Murata	GRM188R61E105KA12D	Yes	Yes
C3	1	CAP CER 1UF 6.3V X7R 0603	1 uF	10%	0603	Murata	GRM188R70J105KA01D	Yes	Yes
C4,C8,C10,C11,C12	5	CAP CER 1UF 10V X5R 0603	1 uF	10%	0603	Murata	GRM188R61A105KA61D	Yes	Yes
C17	1	CAP CER 0.1UF 50V X7R 0603	0.1 uF	10%	0603	Murata	GCM188R71H104KA57D	Yes	Yes
C18	1	CAP CER 1UF 50V X7R 0805	1 uF	10%	0805	Murata	GRM21BR71H105KA12L	Yes	Yes
C6,C7	2	CAP CER 330PF 25V X7R 0402	330 pF	10%	0402	Würth Elektronik	885 012 205 041	Yes	Yes
C9,C13,C14,C15,C16	5	CAP CER 470PF 10V X7R 0603	0.1 uF	10%	0603	Murata	885 012 206 006	Yes	Yes
J1	1				USB3.1 C PD	Würth Elektronik	632 723 300 011	No	Yes
J2	1				Mini USB1/2 B	Würth Elektronik	651 005 161 21	No	Yes
J3	1				1x4pin 100mil	Würth Elektronik	613 004 111 21	Yes	Yes
J4,J7	2				1x5pin 100mil	Würth Elektronik	613 005 111 21	Yes	Yes
J5	1				1x2pin 100mil	Würth Elektronik	613 002 111 21	Yes	Yes
J6	1				2pin 200mil	Würth Elektronik	691 216 510 002S	Yes	Yes
J8,J9,J10,J11	4				1x1pin 100mil	Würth Elektronik	613 001 111 21	No	Yes
R2,R3,R10,R13,R14,R15	6	RES SMD 2.2K OHM 1% 1/10W 0603	2.2 kΩ	1%	0603	Vishay Dale	CRCW06032K20FKEA	Yes	Yes
R5,R16	2	RES SMD 4.7K OHM 1% 1/10W 0603	4.7 kΩ	1%	0603	Vishay Dale	CRCW06034K70FKEA	Yes	Yes
R7	1	RES SMD 0.0OHM JUMPER 1/10W 0603	0 Ω	Jumper	0603	Vishay Dale	CRCW06030000Z0EA	Yes	Yes
R8,R17	2	RES SMD 100K OHM 1% 1/10W 0603	100 kΩ	1%	0603	Vishay Dale	CRCW0603100KFKEA	Yes	Yes
R11,R12	2		DNP		0603			Yes	Yes
R18	1	RES SMD 10K OHM 1% 1/10W 0603	10 kΩ	1%	0603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
SW2	1				8 PIN DIP	Würth Elektronik	418 117 270 904	Yes	Yes
U1	1	USB-PD TYPE-C PORT CONTROLLER			QFN24	Cypress	CYPD2122-24LQXIT	No	Yes
U2	1	USB-PD TYPE-C PORT CONTROLLER			QFN24	Cypress	CY7C65211-24LTXI	No	Yes
U3	1	4-LINE TRANSIENT VOLTAGE SUPPRESSOR			SOT563	ON Semiconductor	NUP4060	No	Yes
U4	1	150mA WIDE INPUT RANGE VOLTAGE REGULATOR			SOT89-5	ON Semiconductor	NCP4641H033T1G	No	Yes
	1	USB TYPE-C TO TYPE-C CABLE				Würth Elektronik	632 910 731 731	Yes	Yes