

ON Semiconductor



Bill of Materials for the NCP3121 Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free	Comments
RT	1	Resistor	240k	1%	1206	VISHAY	RCA1206240KFKEA	Yes	Yes	
RVIN, R14, R24	1	Resistor	100R	1%	1206	VISHAY	RCA1206100R0FKEA	Yes	Yes	
R1	1	Resistor	75k	1%	1206	VISHAY	RCA120675K0FKEA	Yes	Yes	
R5, R22	2	Resistor	47k	1%	1206	VISHAY	RCA120647K0FKEA	Yes	Yes	
R6, R23	2	Resistor	15k	1%	1206	VISHAY	RCA120615K0FKEA	Yes	Yes	
R7, R8	2	Resistor	10k	1%	1206	VISHAY	RCA120610K0FKEA	Yes	Yes	
R12	1	Resistor	68k	1%	1206	VISHAY	RCA120668K0FKEA	Yes	Yes	
R13	1	Resistor	13k	1%	1206	VISHAY	RCA120613K0FKEA	Yes	Yes	
R15, R25	2	Resistor	4k7	1%	1206	VISHAY	RCA12064K70FKEA	Yes	Yes	
R16	1	Resistor	5k1	1%	1206	VISHAY	RCA12065K10FKEA	Yes	Yes	
R26	1	Resistor	3k3	1%	1206	VISHAY	RCA12063K30FKEA	Yes	Yes	
C1, C15, C25	3	Ceramic Capacitor	22uF	10%	1210	Kemet	C1210C226K4PAC	Yes	Yes	
C2, C3, C11, C21	4	Ceramic Capacitor	100nF	10%	1206	Epcos	B37872A5104K060	Yes	Yes	
C12, C22	2	Ceramic Capacitor	22nF	10%	1206	Epcos	B37872A5223K060	Yes	Yes	
C14, C24	2	Ceramic Capacitor	220pF	10%	1206	Epcos	B37871K5221J060	Yes	Yes	
L11, L21	2	Inductors	15uH	20%	DO3340P	Coilcraft	DO3340P-153	No	Yes	
LD1, LD2	2	LED Diode - Green	LED 3mm	-	3mm	KingBright	L-7104GD	Yes	Yes	
D11, D21	2	3 A, 60 V Low Vf Schottky Rectifier	MBRS360	-	SMC	ON Semiconductor	MBRS360T3G	No	Yes	
IC1	1	Dual 3A Switching Regulator (200-750 kHz)	NCP3121	-	QFN32 (5x5mm)	ON Semiconductor	NCP3121MNTXG	No	Yes	
JP1, JP2, JP7, JP8	4	3 pin	3 pin	-	2.54	Harwin	M20-9990305	Yes	Yes	
JP3, JP4, JP5, JP6, JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP16	12	RM 2.54 mm, PCB pin's	Jumper - PCB pin's	-	2.54	Harwin	M20-9990205	Yes	Yes	
Jumper	8	Jumper, RM 2.54 mm	Jumper	-	2.54	Harwin	M7686-05	Yes	Yes	
R3, R4	2	Resistor	NU	1%	1206	-	-	Yes	Yes	Not used positions
C13, C16, C23, C26	4	Ceramic Capacitor	NU	10%	1206	-	-	Yes	Yes	Not used positions
Plastic distance	4	Plastic distance	-	-	L5mm	-	-	Yes	-	
Screw	4	M3 Screw	-	-	D3x6mm	-	-	Yes	-	
Connectinng ext. points	17	Connecting external points	-	-	-	-	-	Yes	-	