



Bill of Materials for NCP1681_58921_51561DC Rev 1.0

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP, SMD, CERAMIC, 25V, X5R	3.3uF	10%	0603	TDK	C1608X5R1E335K080AC	Y	Y
C11 C16	2	CAP, SMD, CERAMIC, 25V, X5R	2.2uF	20%	0603	Murata	GRM188R61E225MA12D	Y	Y
C14-15	2	CAP, SMD, CERAMIC, 25V, COG	10pF	2%	0603	Yageo	CC0603GRNPO9BN100	Y	Y
C2 C13	2	CAP, SMD, CERAMIC, 25V, X7R	0.1uF	10%	0603	Yageo	CC0603KRX7R8BB104	Y	Y
C3-4 C9-10 C12 C17	6	CAP, SMD, CERAMIC, 25V, X7R	1uF	10%	0603	Murata	GCM188R71E105KA64D	Y	Y
C5-6	2	CAP CER 0.1UF 630V 10% X7R 1210	0.1uF	10%	1210	Kemet	C1210C104KBRAC7800	Y	Y
C7-8	2	CAP, SMD, CERAMIC, 50V, NPO	47pF	5%	0402	Murata	GRM1555C1H470JA01D	Y	Y
CT1	1	XFRMR CURR SENSE 2mH 1:100 SMD	1:100	NA	SMD	Pulse Electronics	P8208NL	N	Y
D1	1	DIODE FAST REC 1A 600V		NA	SMA	onsemi	ES1J	N	Y
D2	1	DIODE GEN PURP 100V 200MA SOD123		NA	SOD-123	onsemi	MMSD1448T1G	N	Y
HS	1	HEATSINK CPU 40.6MM SQ H=.525"		NA		Wakefield-Vette	655-53AB	N	Y
Thermal Pad	1	THERM PAD 304.8MMX304.8MM W/ADH		NA	NA	Bergquist	BP800-0.008-00-1212	N	Y
Screw	1	MACHINE SCREW PAN PHILLIPS 6-32		NA	NA	B&F	PMS 632 0025 PH	Y	Y
Lockwasher	1	WASHER SPLIT LOCK #6 STEEL		NA	NA	Keystone	4700	Y	Y
D4-5	2	Diode, 200mA, 100V Std. Rec.		NA	SOD-323	onsemi	BAS16HT1G	N	Y
J3-6	4	Testpin, Gold, Pin 0.40mil, Post 0.28		NA	Thru-Hole	Keystone	1352-1	Y	Y
Q1-2	2	DrGaN, Single, 650V		NA	TQFN26_8x8	onsemi	NCP58921	N	Y
R1	1	RES, SMD, 1/10W	2.0	1%	0603	TE Connectivity	CPF0603F2R0C1	Y	Y
R3	1	RES, SMD, 1/10W	316k	1%	0603	Yageo	RC0603FR-07316KL	Y	Y
R5	1	RES, SMD, 1/10W	100k	1%	0603	Vishay	RCA0603100KFKEA	Y	Y
R9	1	RES, SMD, 1/10W	10k	1%	0603	Yageo	RC0603FR-0710KL	Y	Y
R10	1	RES SMD 4.02K OHM 1% 1/4W 1206	4.02k	1%	1206	Vishay Dale	CRCW12064K02FKEA	Y	Y
R11	1	RES SMD 47.5K OHM 1% 1/10W 0603	47.5k	1%	0603	Yageo	RC0603FR-0747K5L	Y	Y
R14-15	2	RES, SMD, 1/10W	24.9	1%	0603	Yageo	RC0201FR-0724R9L	Y	Y
R2 R4	2	RES, SMD, 1/10W	10	1%	0603	Yageo	RT0603FRE0710RL	Y	Y
R6 R13	2	RES, SMD, 1/10W	DNI	1%	0603	Yageo	RC0603JR-070RL	Y	Y
R7-8 R12	3	RES, SMD, 1/10W	0	5%	0603	Yageo	RC0603JR-070RL	Y	Y
U1	1	Linear Voltage Regulator, Adjustable, Single Ouplut, 150 mA	NCP730	NA	TSOP-5	onsemi	NCP730ASNADJT1G	N	Y
U2	1	5 kVrms Isolated Dual Channel Gate Driver	NCP51561B A	NA	SOIC16-Wide	onsemi	NCP51561BADWR2G	N	Y
U3	1	DUAL 60V P-CHANNEL MOSFET 8SOIC	FDS9958	NA	SOIC8	onsemi	FDS9958	N	Y