

Bill of Materials for the NCP1421 Demonstration Board

ON Semiconductor



23/8/2004

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Part Number	Substitution Allowed	Lead Free	Comments
U1	1	Step-Up DC-DC Converter	600 mA	NA	Micro8	ON Semiconductor	NCP1421DMR2	NO	NO	-
D1	1	Schottky Power Rectifier	500 mA, 20 V	NA	SOD123	ON Semiconductor	MBR0520L	NO	NO	Optional
C2	1	Ceramic Chip Capacitor	10 pF, 50 V	+/-5%	0603	Panasonic	ECJ1VC1H100D	YES	NO	Optional
C3	1	Ceramic Chip Capacitor	NA	NA	NA	NA	NA	YES	NO	Optional
C4	1	Ceramic Chip Capacitor	220 nF, 10 V	+/-10%	0603	Panasonic	ECJ1VB1A224K	YES	NO	-
C1,C5	1	Ceramic Chip Capacitor	22 uF, 6.3 V	+/-20%	1206	Panasonic	ECJ3YB0J226M	YES	NO	-
L1	1	SMT Power Inductor	5.6uH	+/-10%	5.8mm x 5.8mm x 2.5mm	Sumida	CDC5D235R6	YES	NO	-
R1	1	Chip Resistor	220 kΩ, 1/10 W	+/-1%	0603	Yageo America	9C06031A2203FKHF	YES	NO	-
R4	1	Chip Resistor	270 kΩ, 1/10 W	+/-1%	0603	Yageo America	9C06031A2703FKHF	YES	NO	-
R2	1	Chip Resistor	300 kΩ, 1/10 W	+/-1%	0603	Yageo America	9C06031A3003FKHF	YES	NO	-
R5	1	Chip Resistor	330 kΩ, 1/10 W	+/-1%	0603	Yageo America	9C06031A3303FKHF	YES	NO	-
R3	1	Chip Resistor	470 kΩ, 1/10 W	+/-1%	0603	Panasonic	9C06031A4703FKHF	YES	NO	-
T1,T2,T3,T4 JP1,JP2	6	2.54mm Header	NA	NA	NA	Mill-Max Manufacturing Corp	350-10-112-00-006	YES	NO	JP3 Optional