

## Bill of Materials for the NCP5005 Evaluation Board

ON Semiconductor



7.5.2006

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS Compliant
C1	1	X5R Ceramic Capacitor	4.7 uF, 16 V	10%	1206	Murata	GRM31CR61C475KA01L	See Note 1	Yes
C2	1	X5R Ceramic Capacitor	1 uF, 25 V	10%	1206	Murata	GRM319R61E105KC36D	See Note 1	Yes
D1	1	Schottky Diode	NA	NA	SOD123-P	ON Semiconductor	MBR0530T1G	No	Yes
D2,D3,D4, D5	4	LED diode	NA	NA	SMD	Osram	LW-T67C		Yes
SKT1	2	Connector	Connector	NA	RAD0.4	Kontek Comatel	3110014000500	Yes	Yes
JP1	1	Connector	ISense	NA	SIP2	Tyco	5-826629-0	Yes	Yes
L1	1	INDUCTOR	22 uH	10%	1210	Coilcraft	1008PS-223KLB		Yes
R1	1	Resistor	51 Ω	1%	0805	Vishay-Draloric	TNPW080551R0FHEA	Yes	Yes
S1	1	Connector	ENABLE	NA	SIP3-H	Tyco Harwin	5-826629-0	Yes	Yes
TP1,TP2, TP3, TP4	4	Test Point	Vbat, FB, Vout, Vsw	NA	NA	Keystone	5005 ( THM )	Yes	Yes
U1	1	White LED driver	NCP5005	NA	TSOP5	ON Semiconductor	NCP5005SNT1G	No	Yes
Z1	1	GND TestPoint	GND_TEST	NA	NA	Harwin	D3082-01 (tin ) D3082-05 (gold )	Yes	Yes
		Jumper	NA	NA	pitch 2.54 mm	Any	Any	Yes	Yes

Note 1 : using X7R type ceramic capacitor is possible, but the system will have downgraded performances when operating over the temperature range.