



Perpa Ticaret Merkezi A Blok No:19
Okmeydanı-Şişli/İSTANBUL
Tel: 444 8 745 Fax: 0212 251 94 33

Model : 12M Li-ion/Li-Po PCM 7.4V (2 Cell) 3A Sıcaklık Çıkışlı Lithium Devre



NO: 998.501.002

7.4V 3A 2 Cell Protection Circuit

1. Electrical Characters

Topt=25°C

Item	Symbol	Content	Criterion
Charging/Discharging current		Max. Charging Current	3A
		Max. Discharging Current	3A
Overcharge Protection	VDET1	Over Charging Protect	$4.25 \pm 0.05V$
	tVDET1	Overcharge Delay Time	1S (MAX)
	VREL1	Overcharge Release Voltage	$4.05 \pm 0.05V$
Over discharge Protection	VDET2	Over Discharging Protect	$2.8V \pm 0.1V$
	tVDET2	Over discharge Delay Time	128ms (MAX)
	VREL2	Over discharge Release Voltage	$3.0V \pm 0.1V$
Over Discharge Current	VDET3	Over current Protection Voltage	$200 \pm 30mV$
	IDP	Over Discharge Current	7.0-9.0A
	tVDET3	Detect Delay	128ms (MAX)

		Release condition	Cut load
Short Current Protection		Detection condition	Exterior short circuit
	TSHORT	Detect Delay	$600 \mu s$ (MAX)
		Release condition	Cut short circuit
Interior resistance	RDS	Main loop electrify resistance	$RDS \leq 60m\Omega$
Current consumption	IDD	Current consume in normal operation	2.0-6.0uA



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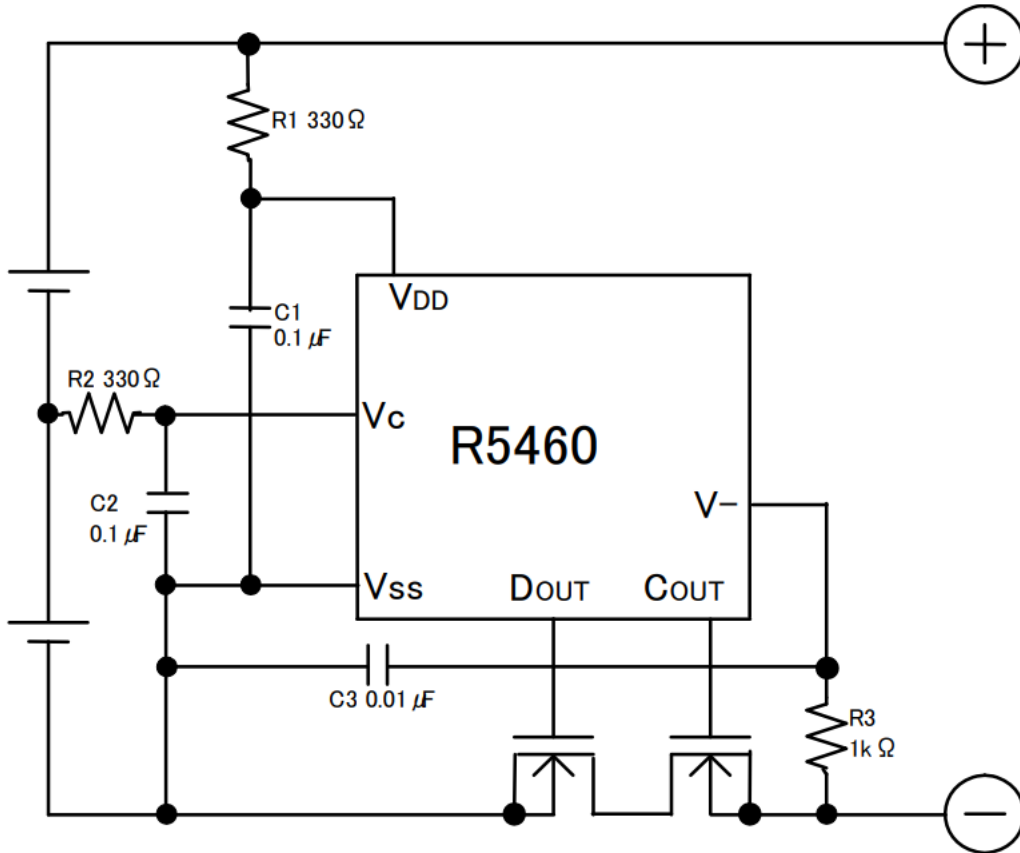
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2. BOM

1	U1	I	R5460N214AF-TR-FE	1	
2	Q	MOSFET	8205A	2	
3	R1/R2/R3	Resistance	-	3	
5	C1/C2	Capacitance	-	2	
	RT1	NTC	NCP18XH103F03RB	1	B25/50-3380
6	PCB	PCB	8.2 (±0.15)*37.4 (±0.1)*0.8 (±0.1)	1	

3. Schematic Diagram



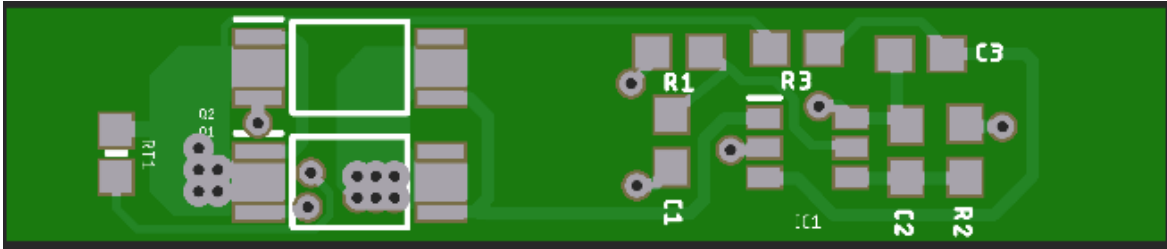
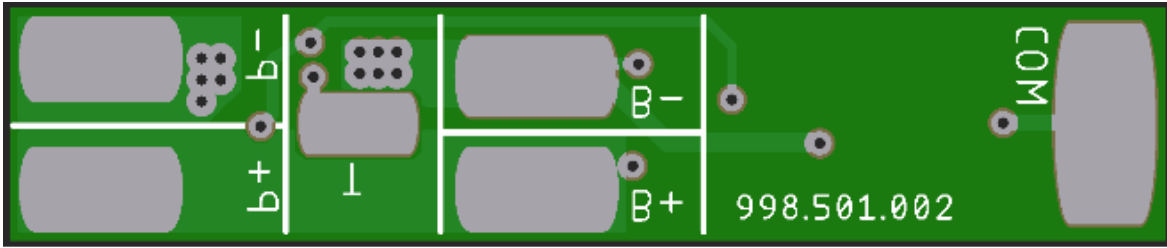
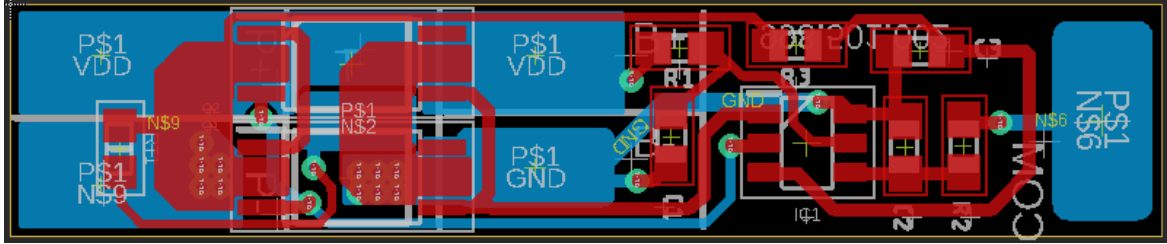


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3. Description

Symbol	Description	Symbol	Description
P+	Battery output/charging positive pole	B +	Cell positive pole
p-	Battery output/charging negative pole	B -	Cell negative pole
T	NTC output	COM	Cell 3.7V connection

