

元璽科技股份有限公司



CSR Circuit Application



CSR Applications

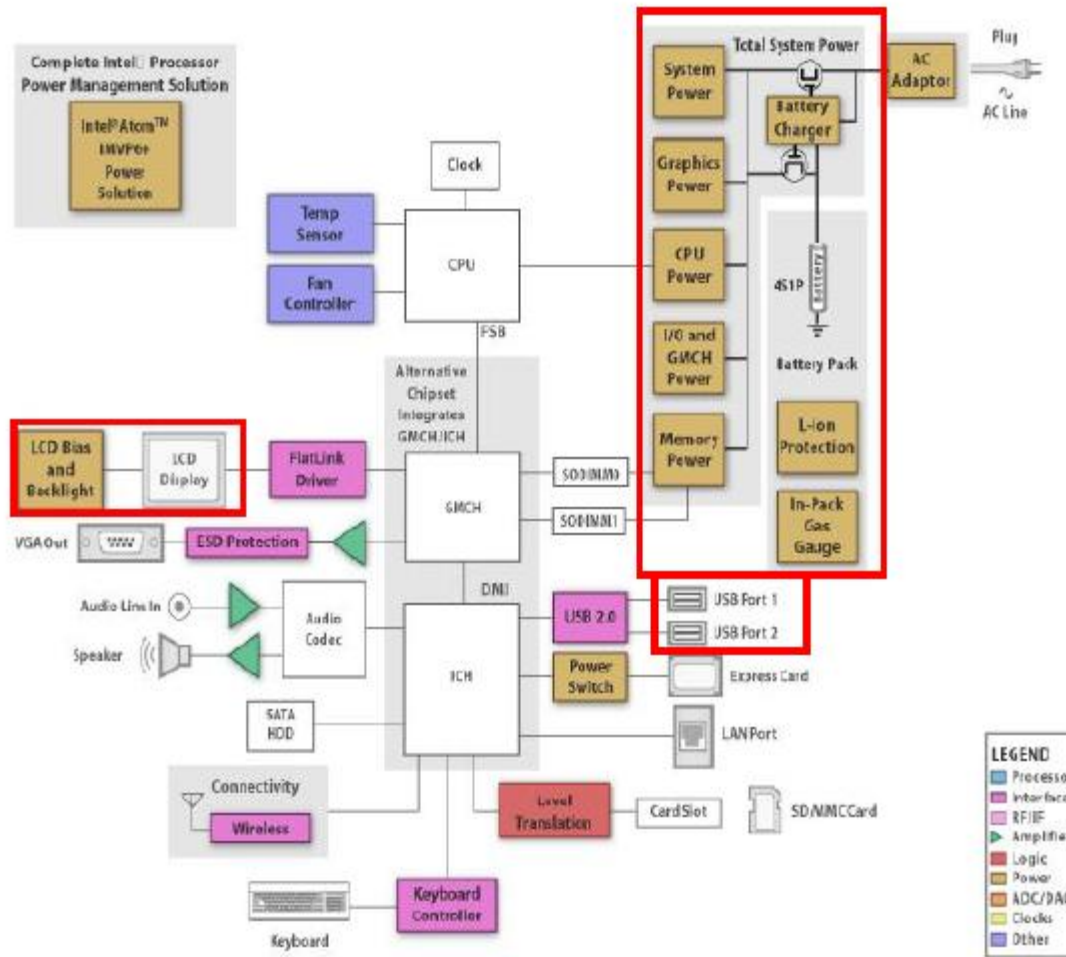
- **Portable Device**
 - NB : MB, Adapter, Battery pad
 - Tablet PC: MB, Battery pad
 - Smart Phone: MB, Battery
- **Battery Management**
 - PCM, BMM, SBM
- **Power Unit**
 - LED Driver, SMPS, Inverter/Converter, Smart Charger ,
Power Bank, Wireless Charger, Adapter
- **PC/Server/IPC**
- **Power tool**
- **DC Motor Control**

Application of Portable Device

CSR Application of Portable Devices

- NB : MB, Adapter, Battery pad
- Tablet PC: MB, Battery pad
- Smart Phone: MB, Battery

Application - NB



■ Battery Charger:

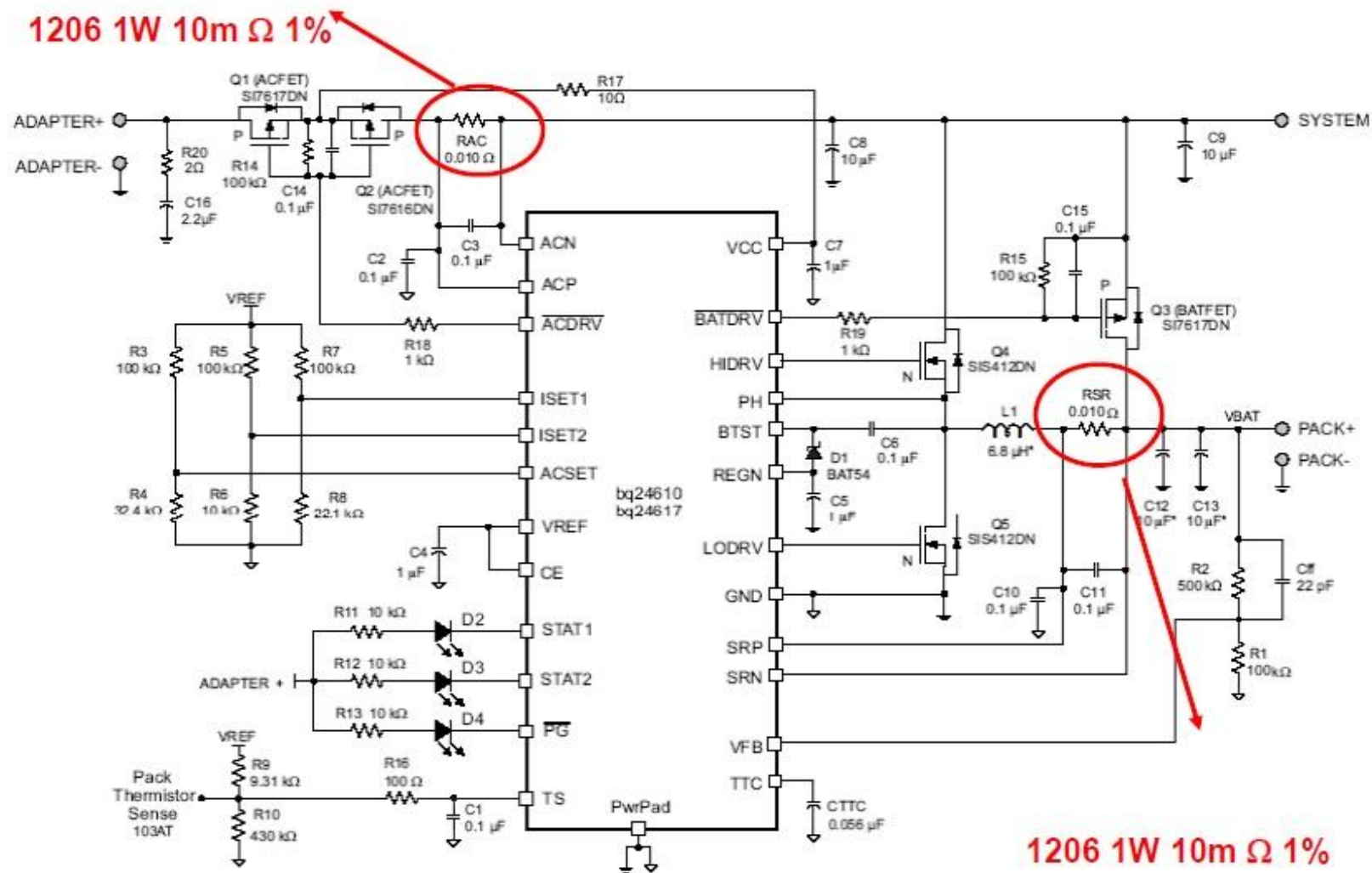
CSR 1206/2512

■ Battery Pack:

CSR 1206/2512

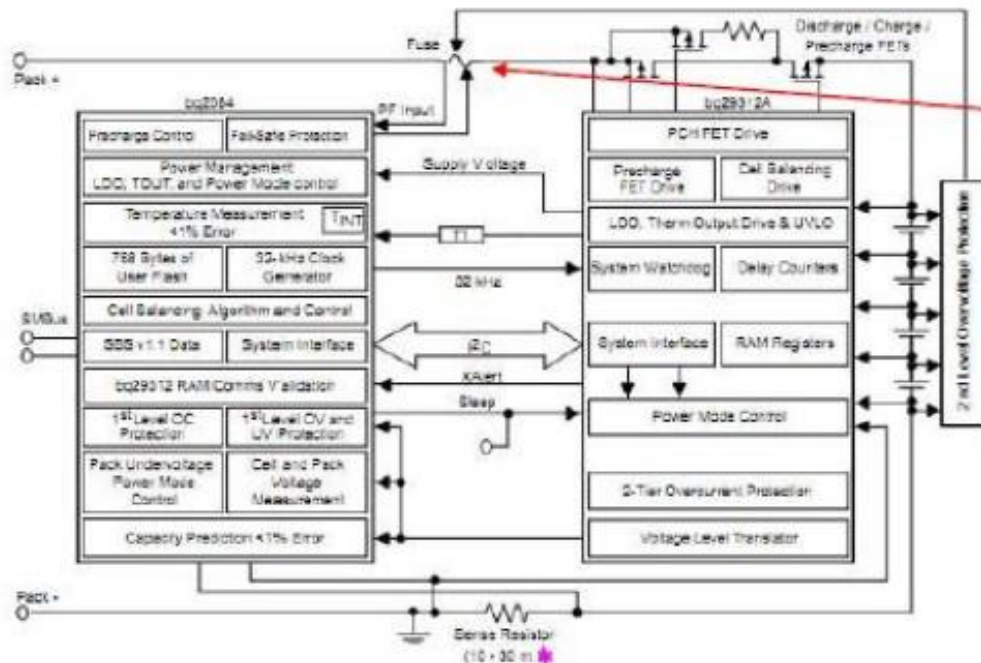
TI solution

Application - NB



TI solution

Application in NB Battery



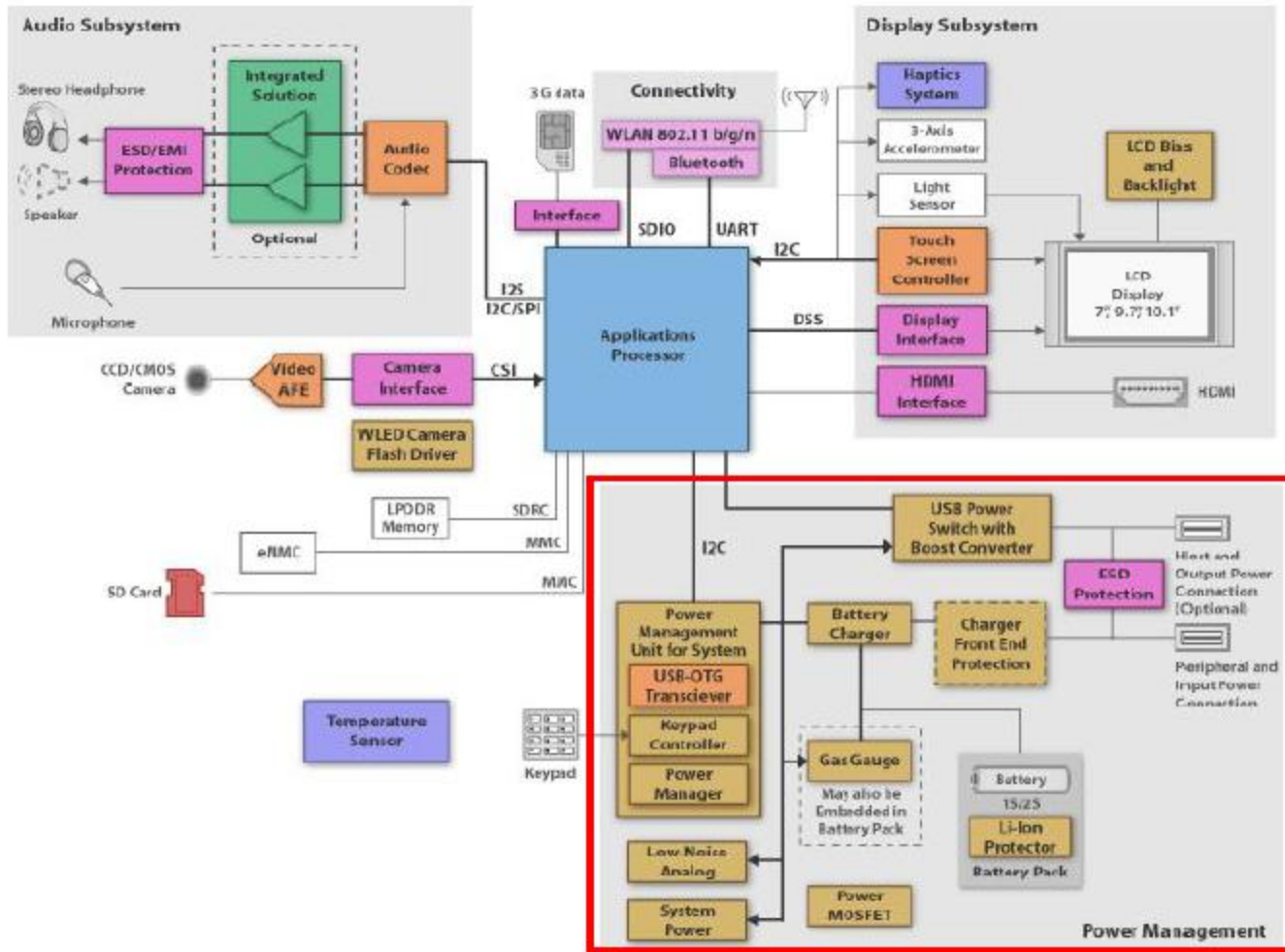
Fuse
用于过电流保护

CSR (Current Sensing Resistor)

2512 2W 1% 3~40mΩ

1206 1W 1% 5~40mΩ

Application - Tablet

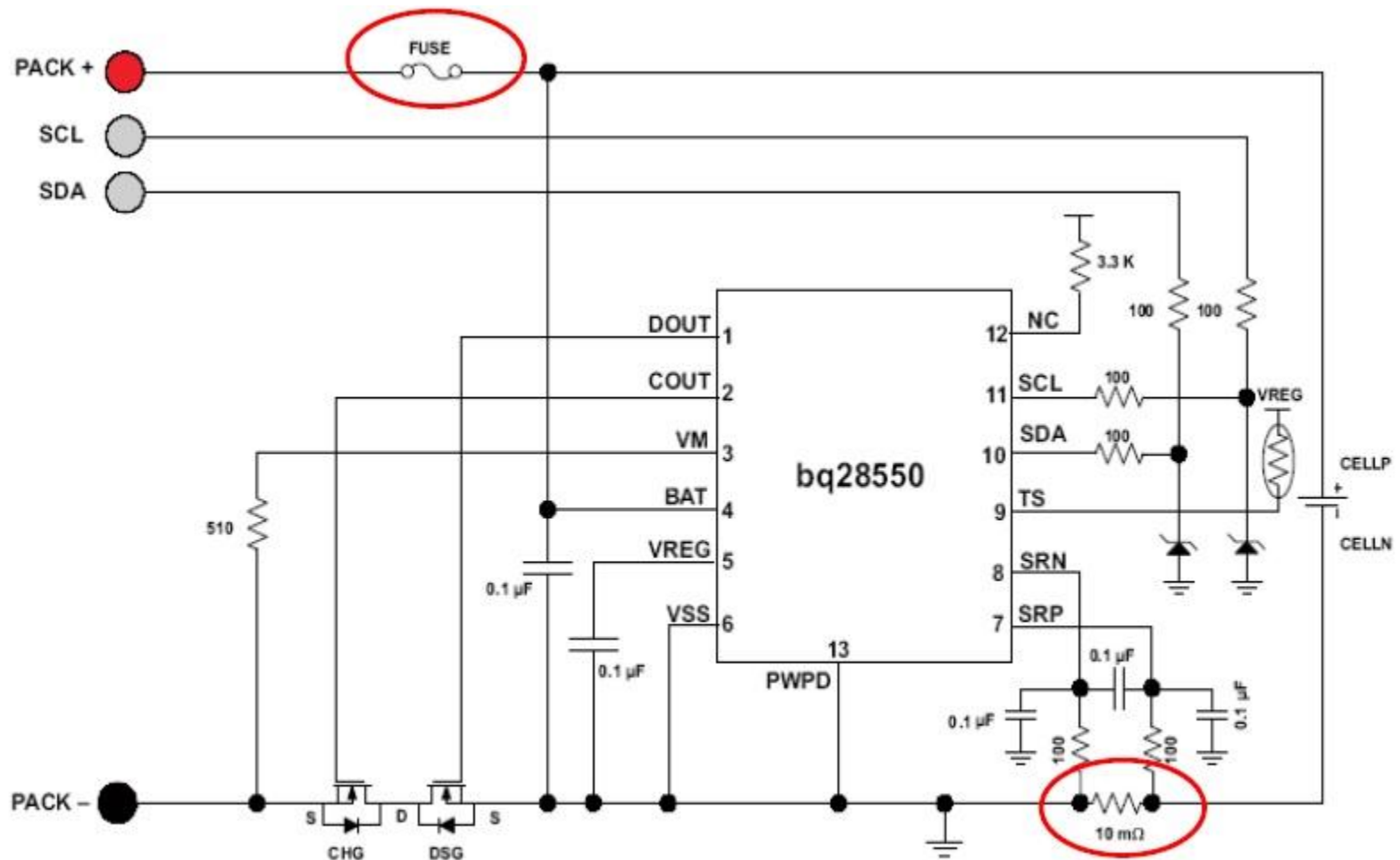


■ **Battery Charger:**
CSR 0603/0805/1206

■ **Battery Pack:**
CSR 0805/1206

TI solution

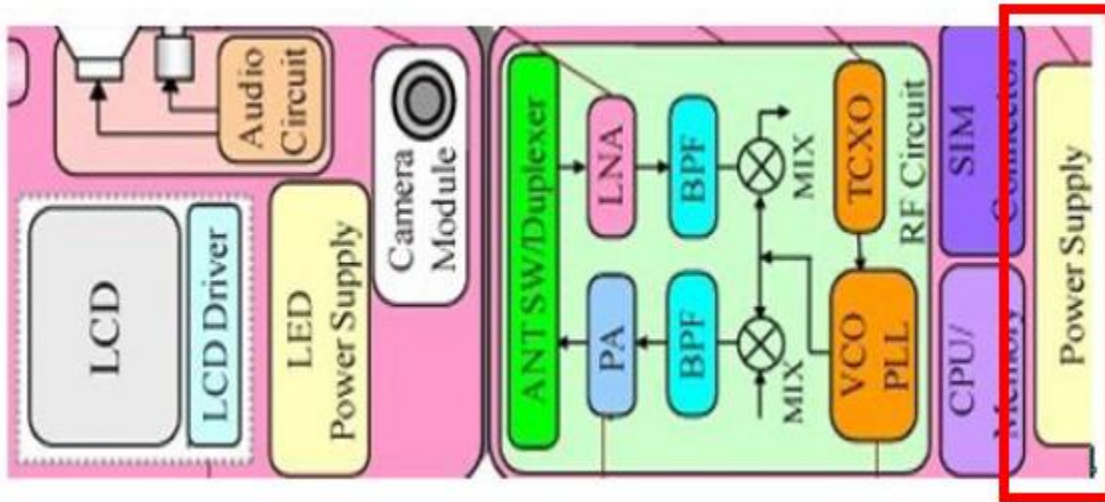
Application - Tablet



TI solution

1206 1W 10m Ω 1%

Application - Mobile Phone



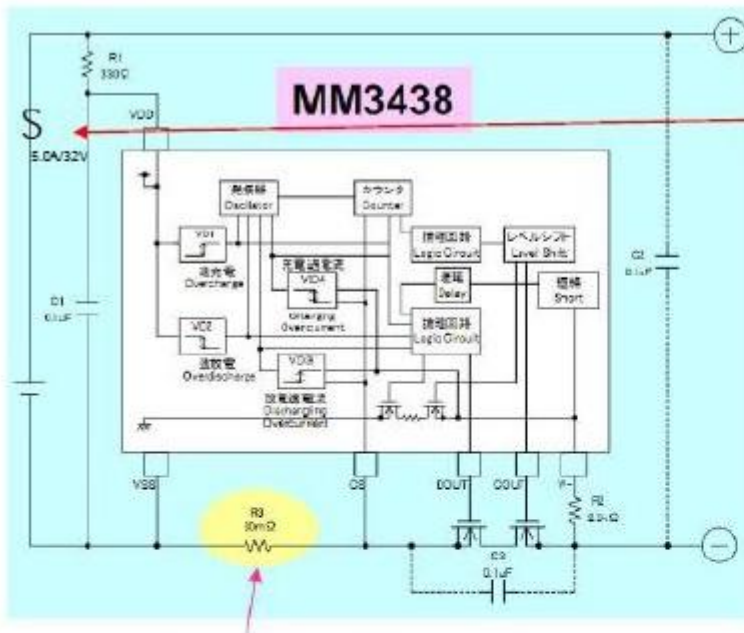
■ Battery Pack:

CSR 0805/0603 0.5W 1% 4~20mΩ

■ MB:

CSR 0805/0603 0.5W 1% 5~20mΩ

Application - Mobile Phone Battery



Fuse

CSR (Current Sensing Resistor)

通过外部感应电阻，进行过电流检测，不受FET内阻精度及温度特性的影响，可进行高精度过电流保护。

0805 0.5W 1% 5~20mR

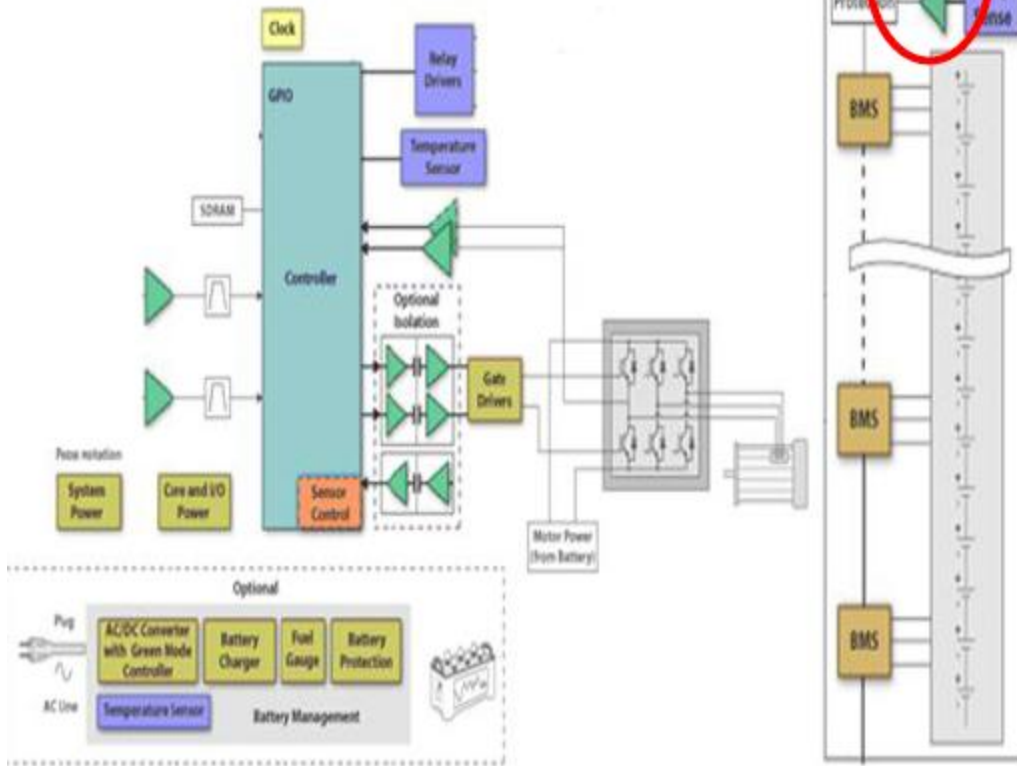
Application of Battery Management

CSR Application of Battery Managements

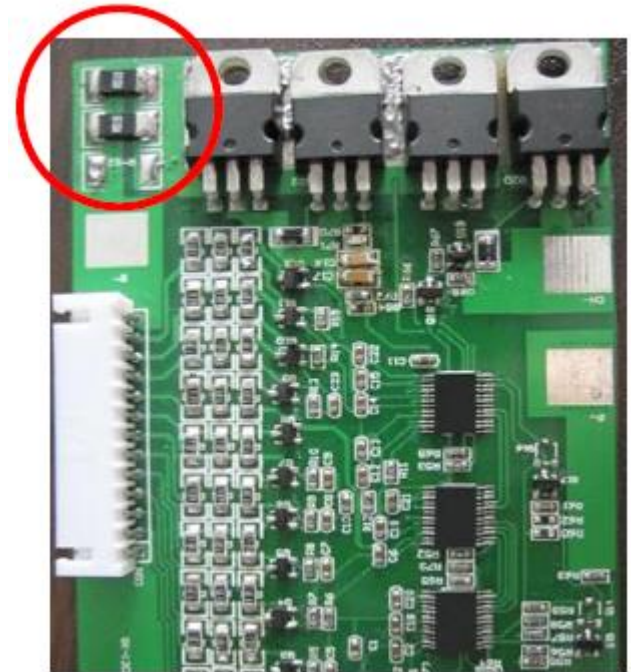
- PCM, BMM, SBM

Application - Power Battery Pack

動力電池應用方塊圖

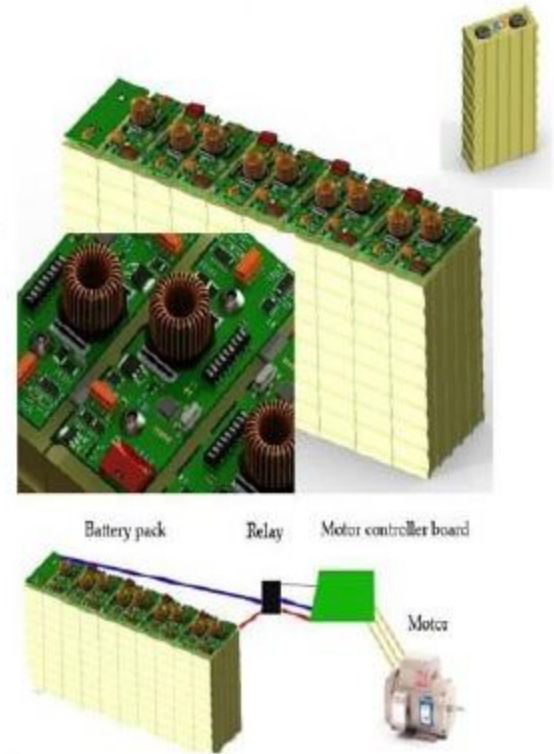
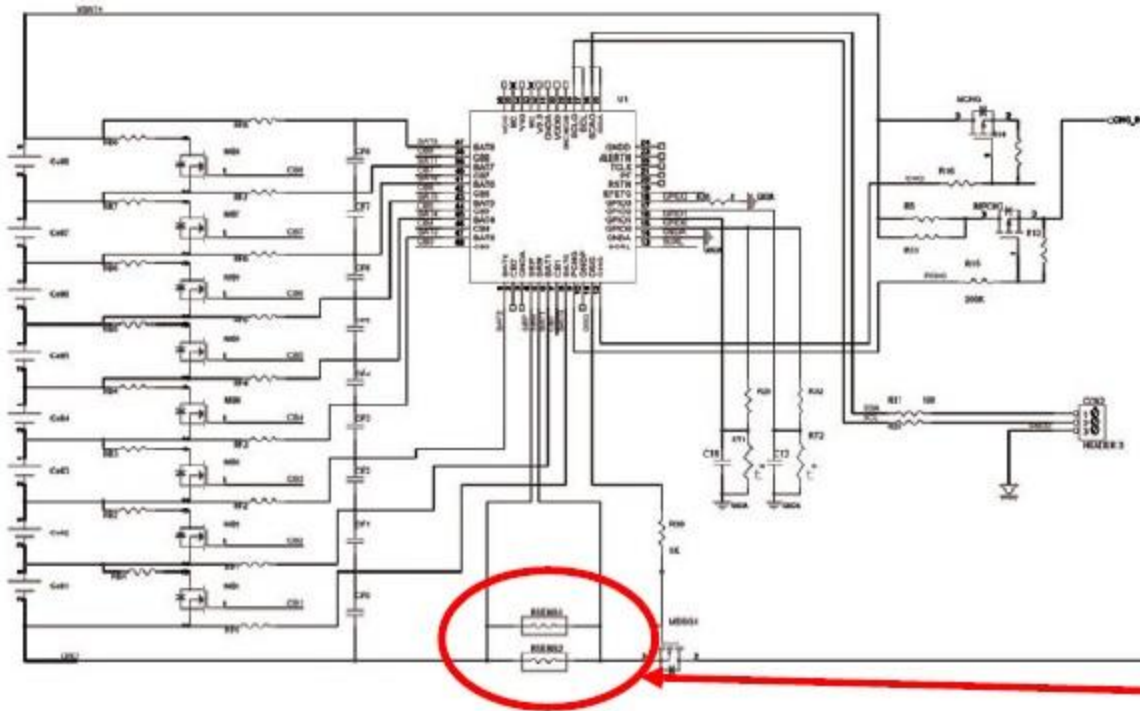


2512 1% 2W/3W 3~20mΩ



Application - Power Battery Pack

動力電池PCM線路圖



Current sensing:

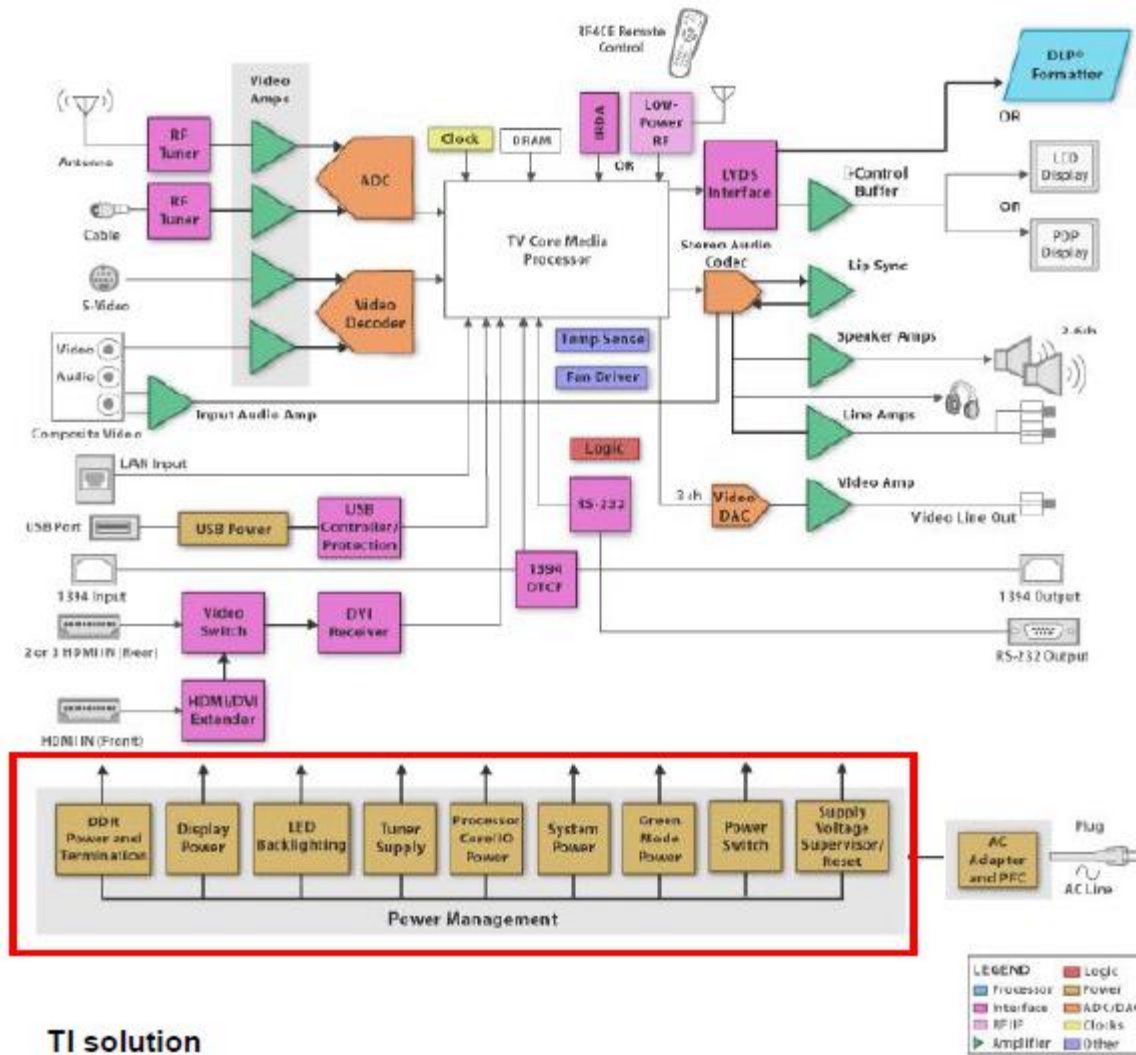
2512 3W 1% 0.5, 1mΩ
3920 5W 1% 0.2~1mΩ

Application of Power Units

CSR Application of Power Units

- LED Driver, SMPS, Inverter/Converter, Smart Charger ,
Power Bank, Wireless Charger, Adapter

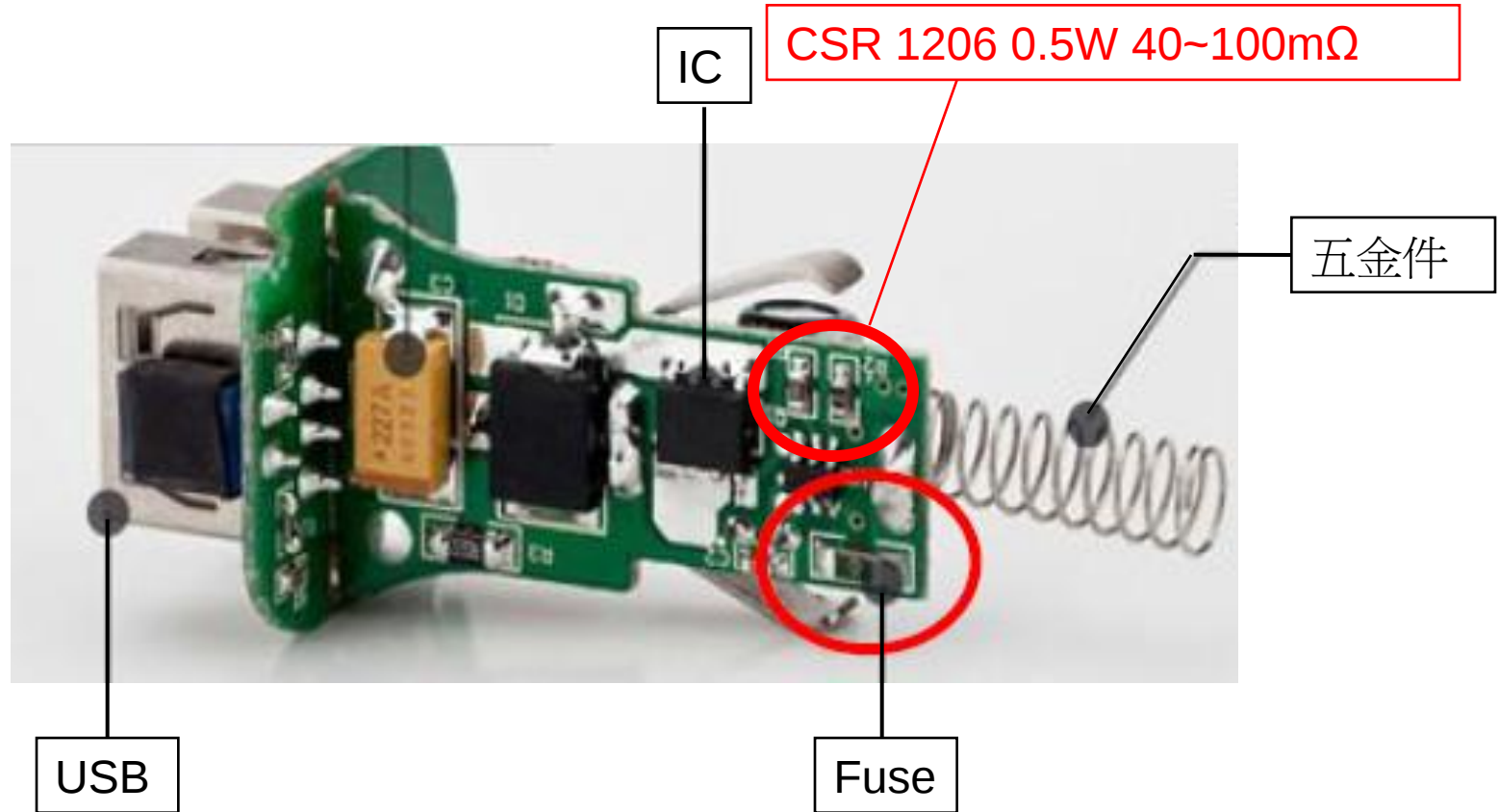
Application - TV



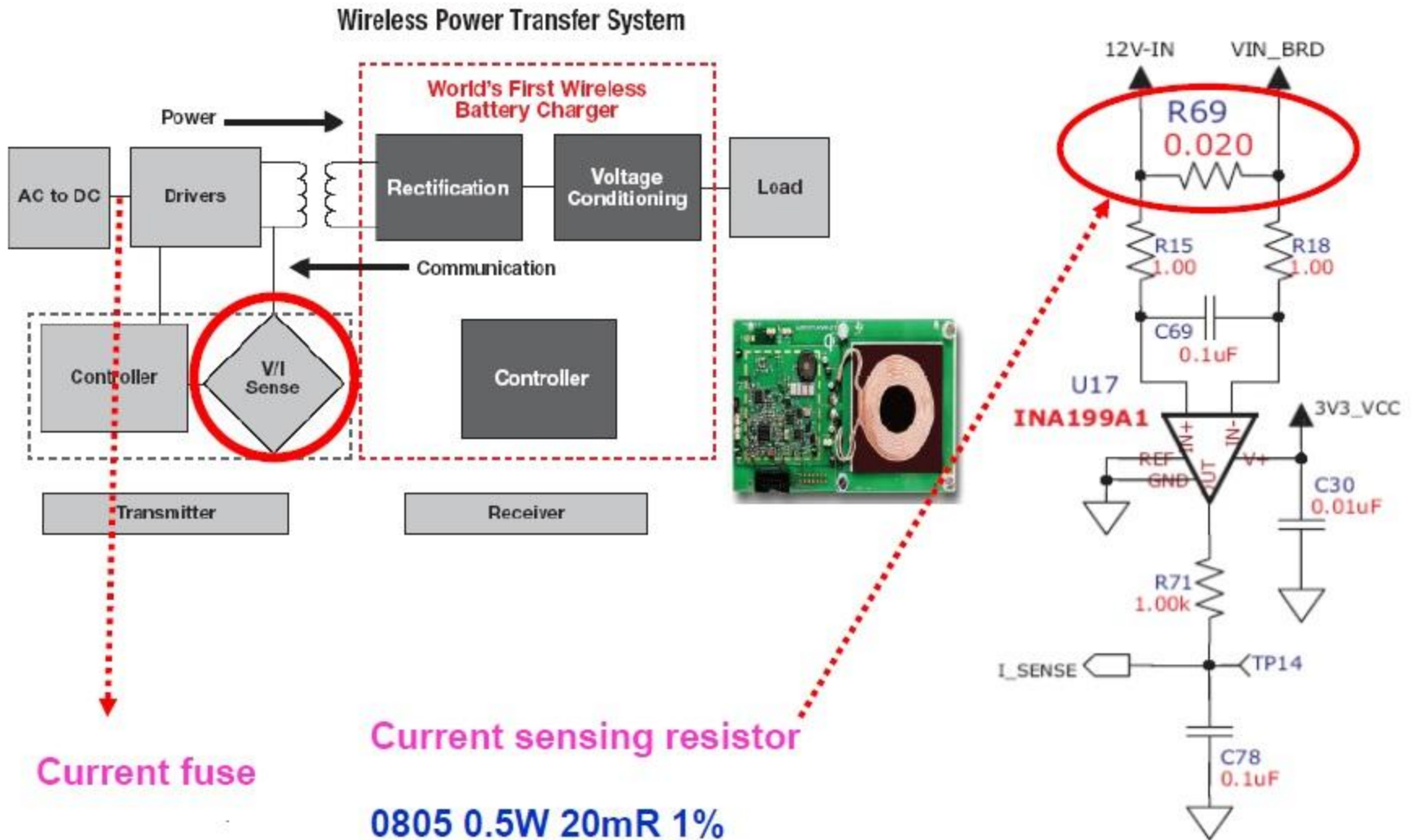
TI solution

- LCD Display module:
B/L inverter/converter
CSR
1206 1W 1% 5~40mΩ
2512 2W 1% 3~40mΩ

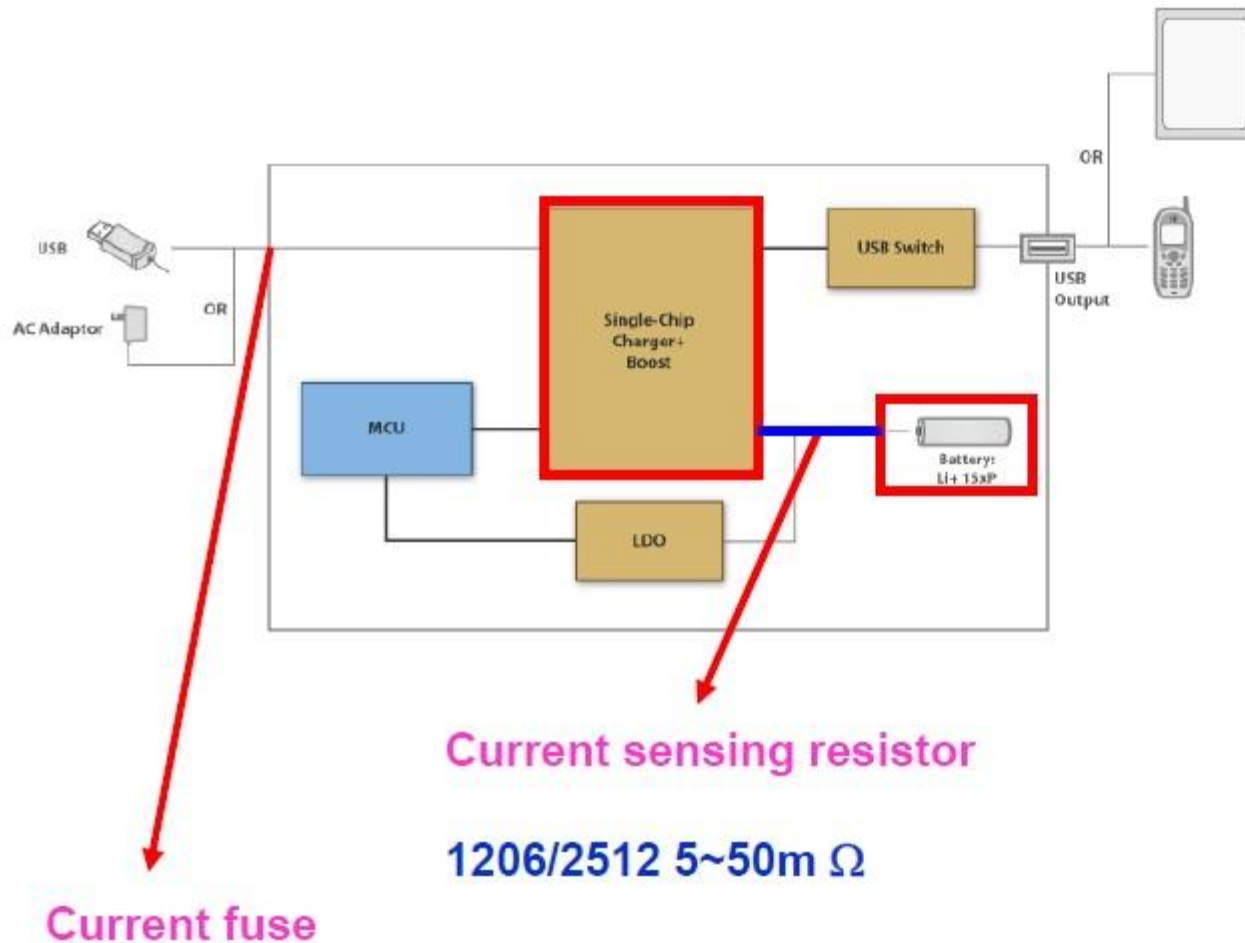
Application-Car Charger



Application - Wireless Charger



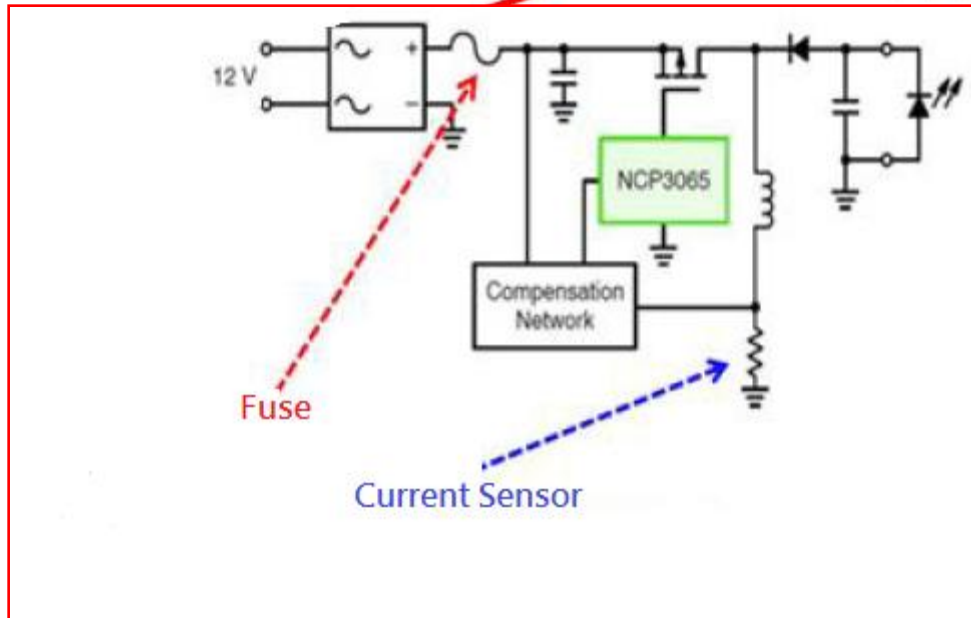
Application - Power Bank



Application-LED Lighting



LED Power Function Block

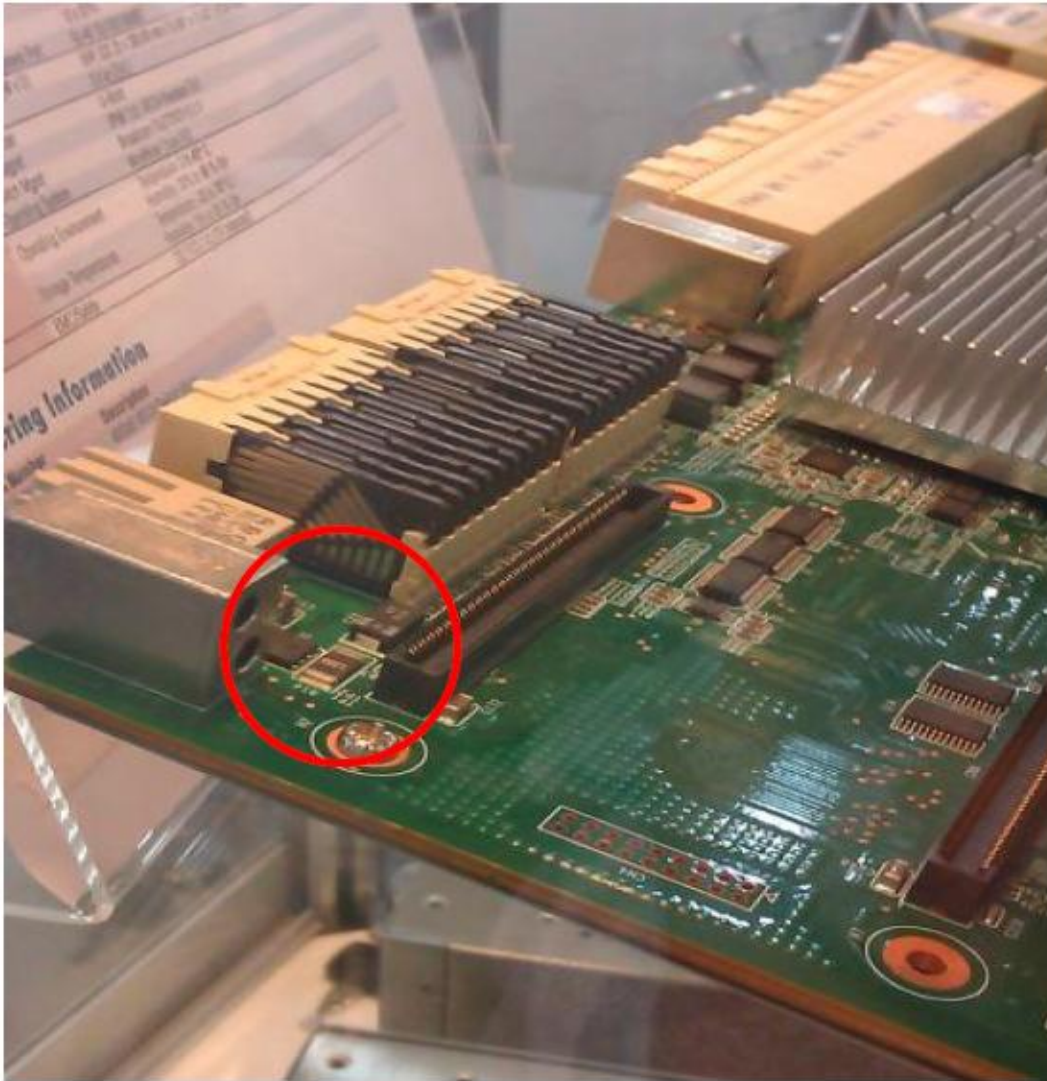


1206 1W/0.5W 1% 5~600mΩ
2512 2W/3W 1% 5~600mΩ

Application of PC/Server/IPC

CSR Application of PC/Server/IPC

Application - IPC



Main Board

MCS 2512 1% 2W/3W 1~20mΩ



MCS 1206 1W 1% 5~ 40mΩ

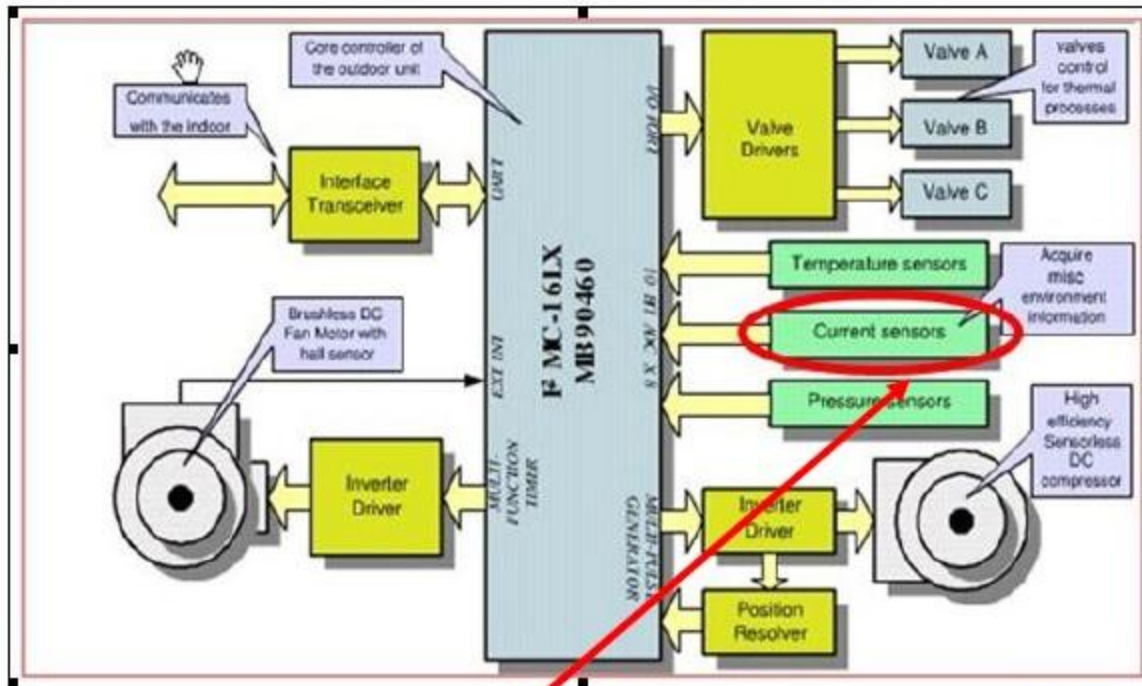
Wellcomp Technology Co., Ltd.

Application of Power Tool

CSR Application of Power Tool

Application - Power Tool

電動工具應用方塊圖

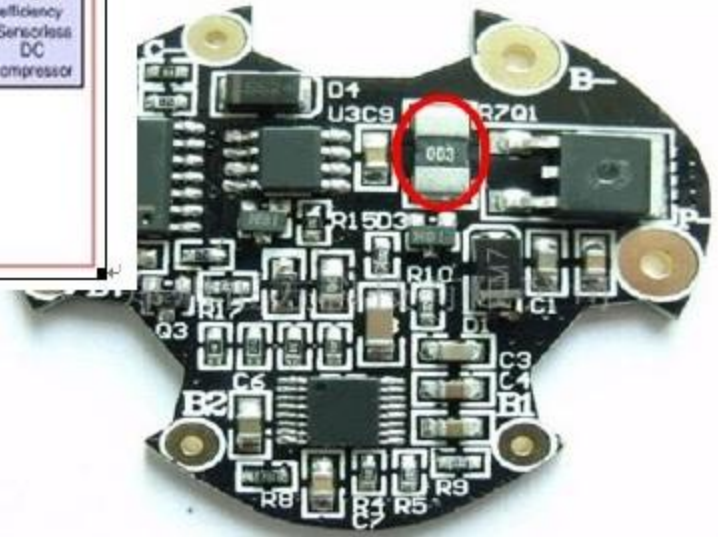


Current sensing:

MCST 2512 2W 1% 3~10mΩ

MCSS 2512 3W 1% 0.5, 1mΩ

MCSS 3920 5W 1% 0.2~1mΩ

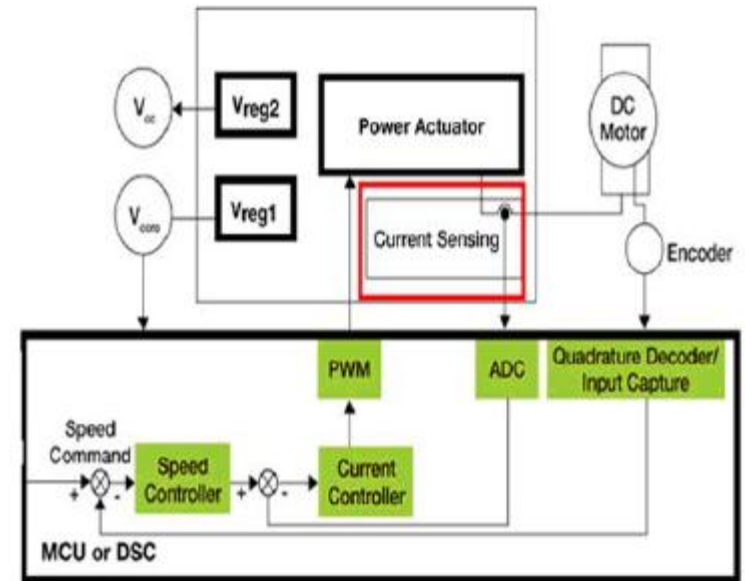
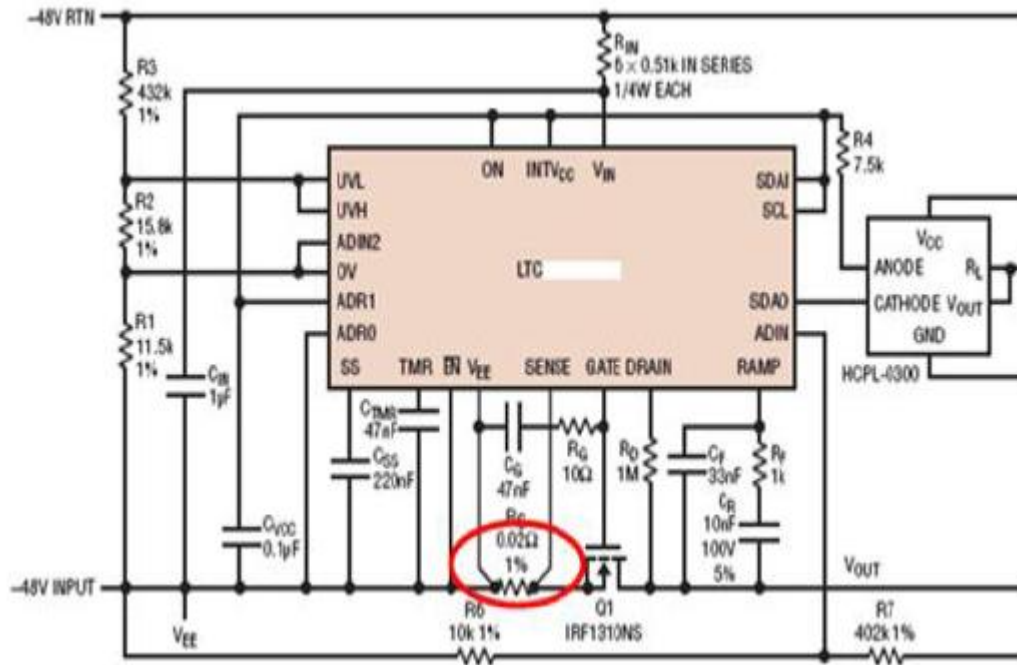


Application of PC/Server/IPC

CSR Applications of DC Motor Control

- DC Fan, DC Motor

Application - DC Fan



1206 1W/0.5W 1% 5~600mΩ
2512 2W 1% 5~600mΩ

Thank You!