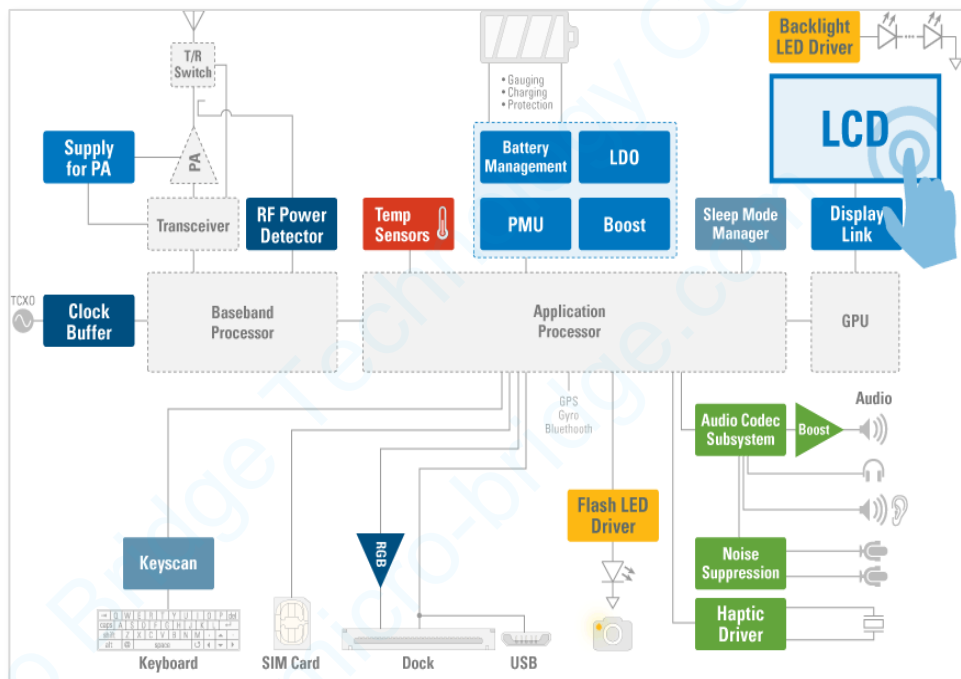
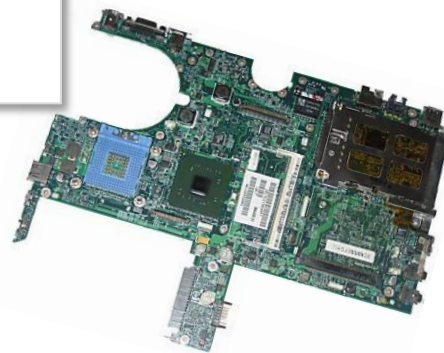


AXElite Products for Tablet PC



2011 Jun

System & Block



System Power Require

Vin : DC Adapter **12 V**
Lion-Battery pack **4.2V or 8.4V**

Vout : A. Intel Chip

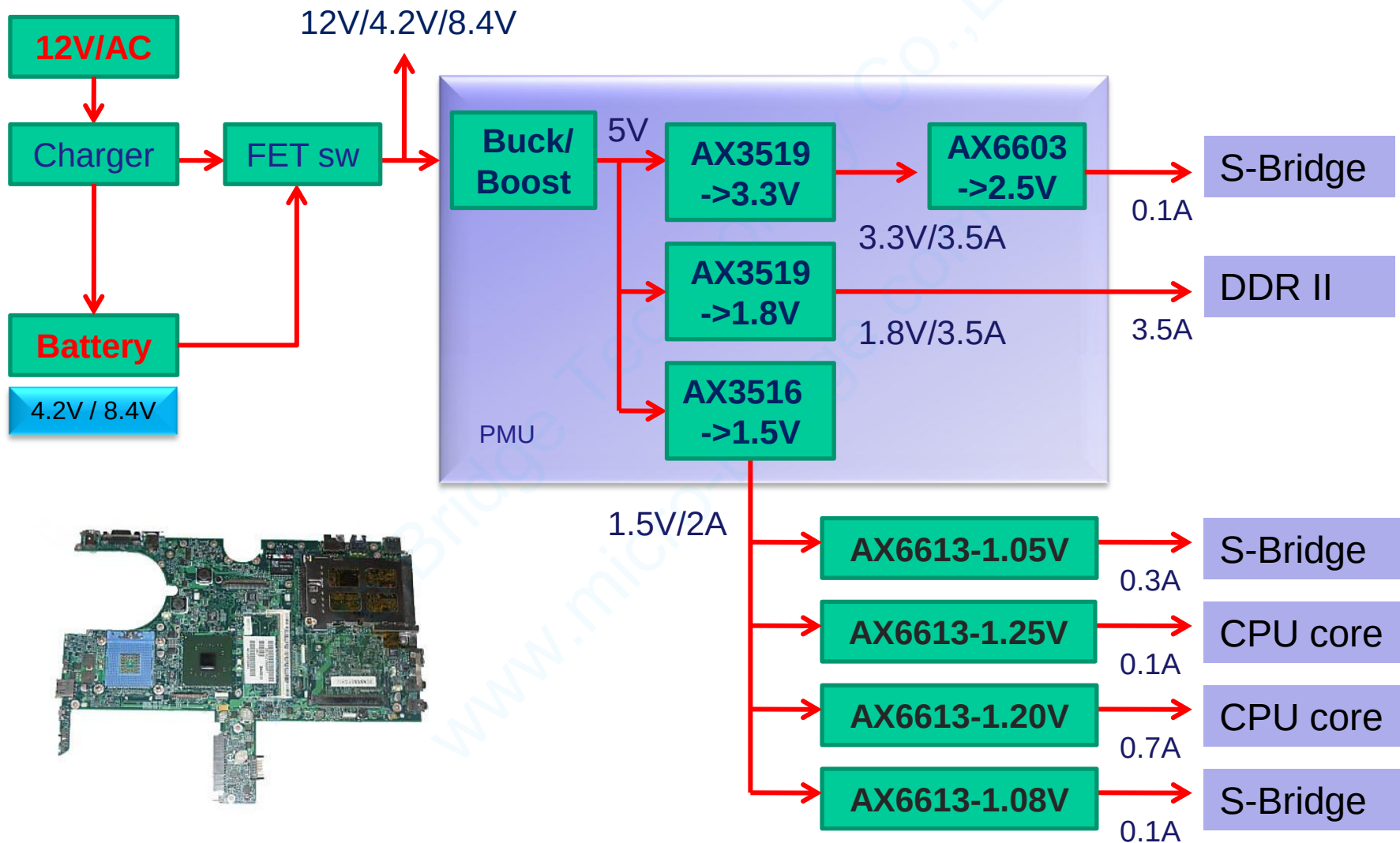
- a. DDR II memory : **1.8V / 1.8A**
- b. South- Bridge Chip : **1.20V / 0.1A**
1.08V / 0.1A
2.50V / 0.1A
- c. Intel CPU core : **1.05V / 0.2A**
1.25V / 0.1A

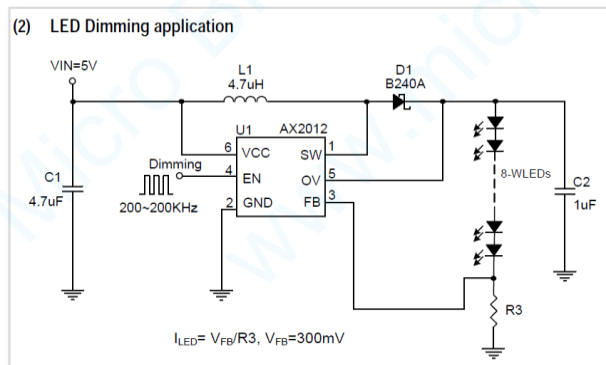
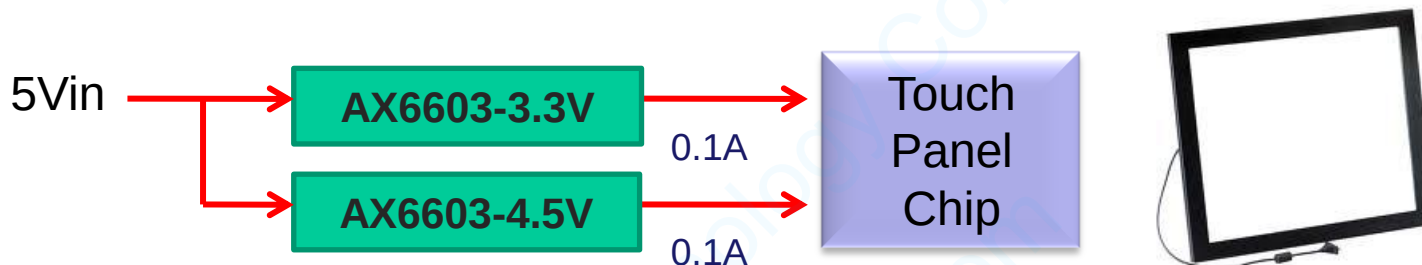
B. 7"~10 "Touch Panel

- a. Control chip : **3.3V & 4.5V / 0.1A**

D. LED backlight

- a. 3 series 8 or 10 parallel : **10.5~11V / 0.3A**



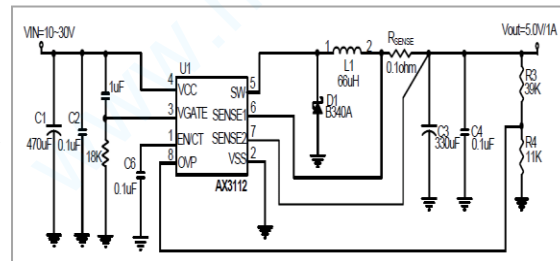


3 series. 8 or 10 parallel





Car
10~30V
Plug-In



Power Require :

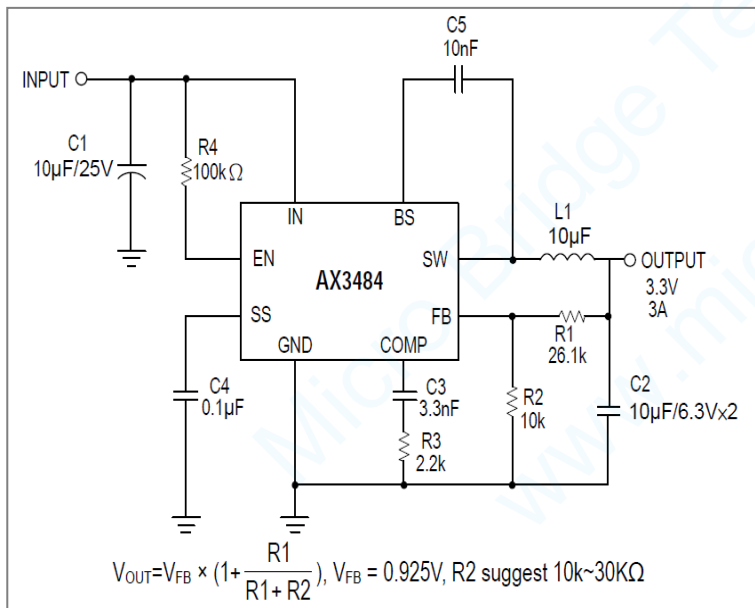
CPU-Vcore : 1.25V~1.05V/1A~3A

South Bridge : 2.5 V~1.2V /500mA

Application :

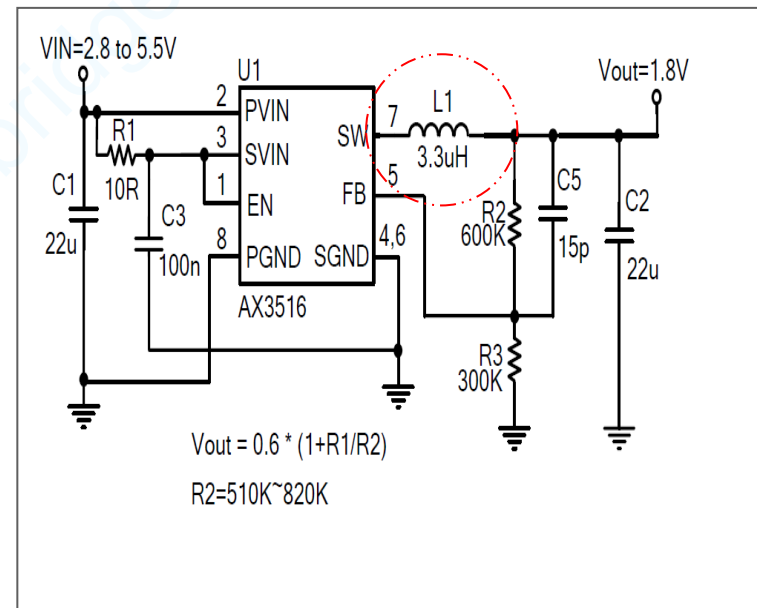
A. 12Vin -> AX3482/3484

(360Khz 2/3A DC/DC)



B. 5Vin -> AX3516/19

(1Mhz 2A~4A DC/DC)



Power Require :

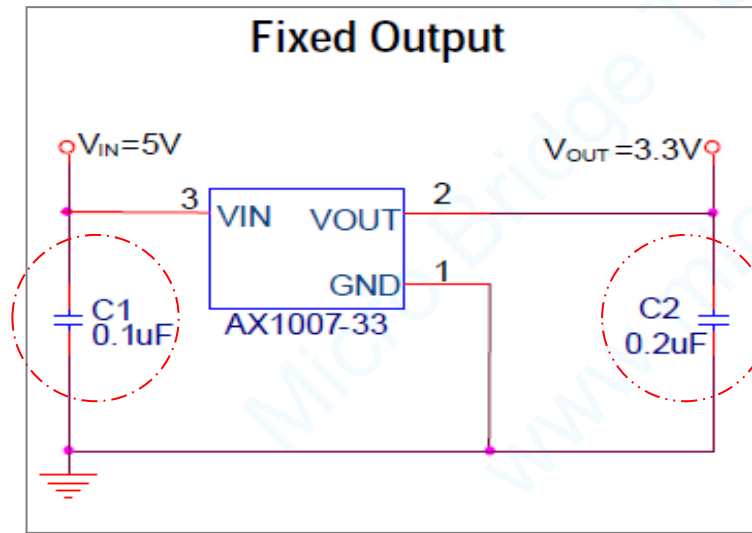
DDR II Vdd : **1.8V/1.2A**

DDR III Vdd : **1.5V/1.8A**

Application :

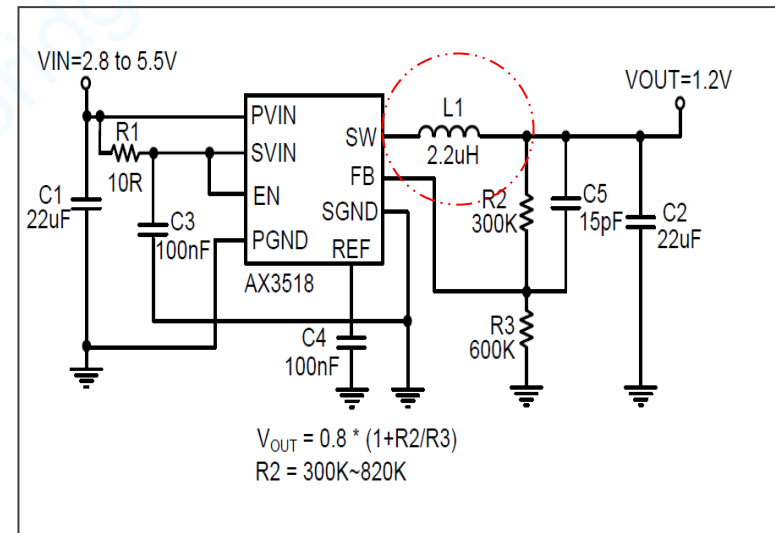
A. 3.3Vin -> AX1007/1008

(1A & 5A LDO for MLCC)



B. 5Vin -> AX3516/19

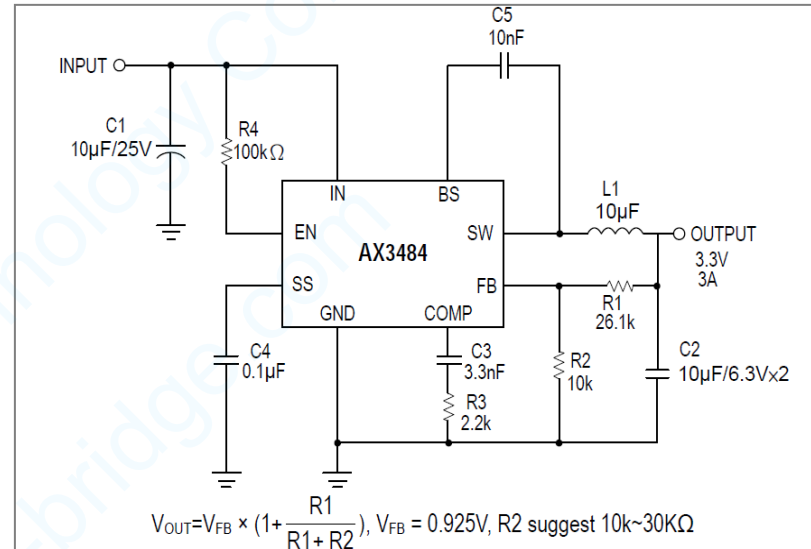
(1Mhz 2A~3.2A DC/DC)



❖ FEATURES

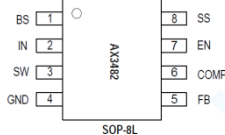
- 2A Output Current
- Wide 4.75V to 23V Operating Input Range
- Integrated 130mΩ Power MOSFET Switches
- Output adjust from V_{FB} to 20V
- Up to 93% Efficiency
- Programmable Soft-Start
- Stable with Low ESR Ceramic Output Capacitors
- Fixed 340KHz Frequency
- Cycle-by-Cycle Over Current Protection
- Thermal shutdown and short circuit protections

❖ APPLICATION CIRCUIT

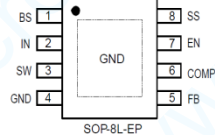


❖ PIN ASSIGNMENT

The package of AX3482 is SOP-8L; the pin assignment is given by:
(Top View)



The package of AX3484 is SOP-8L-EP; the pin assignment is given by:
(Top View)

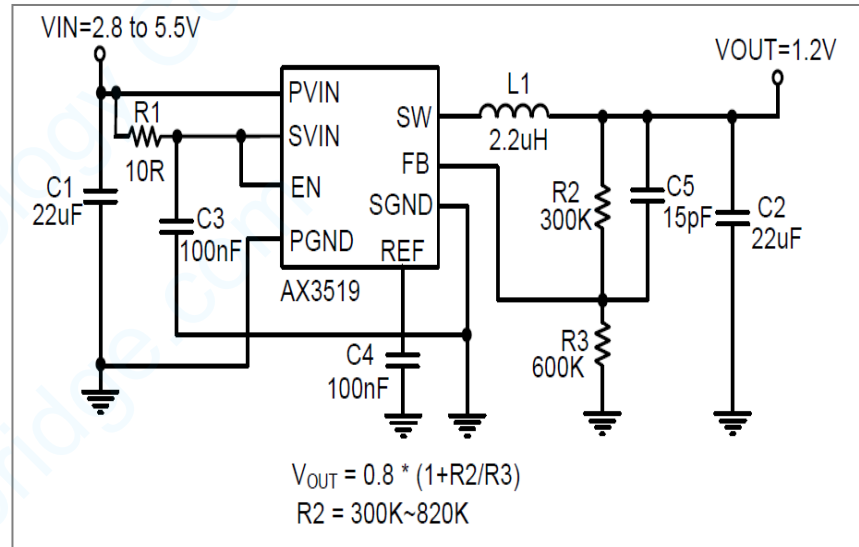


AX3519 (5Vin 1Mhz 4A Sync DC/DC)

❖ FEATURES

2.8V to 5.5V Input Voltage Range
 Output Voltages from 0.8V to VIN
 High Efficiency: Up to 94%
 1MHz Constant Frequency Operation
 With power saving mode
 Up to 4A Output Current
 No Schottky Diode Required
 Current Mode Operation for Excellent Line and Load Transient Response
 Current limit and thermal shutdown protection
 Short Circuit Protect (SCP)

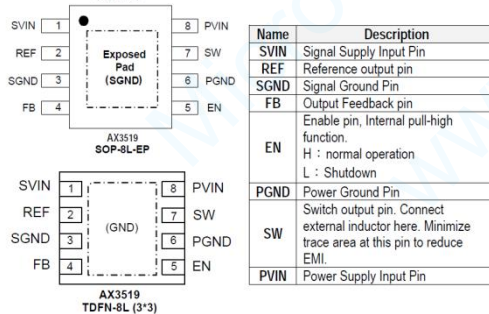
❖ APPLICATION CIRCUIT



❖ PIN ASSIGNMENT

The packages of AX3519 are SOP-8L-EP and TDFN-8L; the pin assignment is given by:

(Top View)

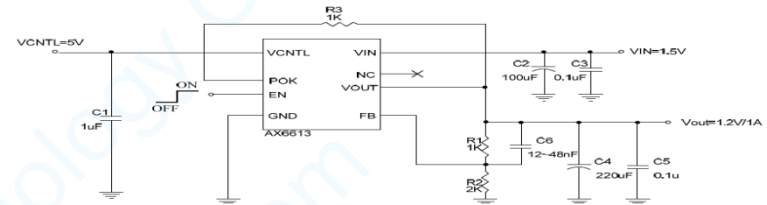


❖ FEATURES

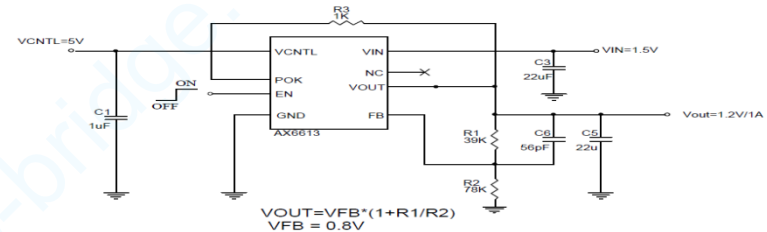
Ultra Low Dropout - 0.2V(typical) at 1A Output Current
 Low ESR Output Capacitor (Multi-layer Chip Capacitors (MLCC)) Applicable
 0.8V Reference Voltage
 Fast Transient Response
 Adjustable Output Voltage by External Resistors
 Power-On-Reset Monitoring on Both VCNTL and VIN Pins
 Internal Soft-Start
 Under-Voltage Protection
 Current-Limit and Thermal Shutdown Protection

❖ APPLICATION CIRCUIT

1. Using an Output Capacitor with $ESR \geq 20m\Omega$

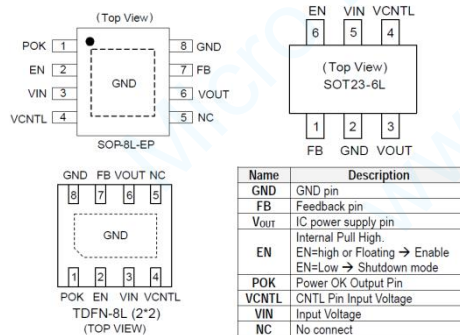


2. Using an MLCC as the Output Capacitor



❖ PIN ASSIGNMENT

The packages of AX6613 are SOP-8L-EP, SOT23-6L and TDFN-8L; the pin assignment is given by:



CMOS LDO List (1~5A)

AX661x series

Axelite Part Number	Description	UPI	Anpec	GMT	Richtek
AX6610	3A SOP8+EP	UP7706/UP7701	APL5913	G973	
AX6611	5A SOP8+EP		APL5912	G972	
AX6612	1.5A SOP8+EP		APL5915	G975	
AX6613	1A SOT26, SOP8EP, DFN	UP7704	APL5910	G964	RT9025
AX6614	2A SOP8+EP	UP7704	APL5920	G966A	RT9018A/B
AX6615	3A SOP8+EP	UP7706/UP7701	APL5930		
AX6616	3A SOP8+EP	UP7706/UP7701	APL5930		
AX6302	Linear-CTRL 0.5Vfb SOT26		APL5612A	G9338	

AX663x series

Axelite Part Number	Description	EUP	Anpec	GMT	Richtek
AX6630/A	1.2A 50uA Fix/ADJ	EUP7961	APL5509	G910 G960	RT9163 RT9183
AX6631	1.2A 50uA ADJ	EUP7961			RT9183
AX6632	1.2A 50uA Fix/ADJ				
AX6636	600mA dual w/ EN				RT9184A
AX6637	1A dual w/o EN	EUP7522	APL5522	G926	
AX6638	700mA dual w/ single EN				
AX6639	3A 200uA 380mVdrop	EUP7963	APL1582	G9085	RT9033

Q & A