

Regulator for VDD_CORE/VDDC (R200 Core)

Vin =5V AGP Vout = 1.5V lout = 5A MAX (load consumption)

Table for IRU3037 and IRU3037A with Alt. Compensation Circuit 1

Part		Rc1	Rc2	Rc3
IRU3037	0.9V	887R 1%	DNI	1.40K 1%
	1.2V	110R 1%	DNI	1.21K 1%
	1.25V	1.00K 1%	DNI	DNI
	1.4V	511R 1%	6.49K 1%	DNI
	1.5V	1.33K 1% 511R 1%	6.49k 1% 2.43K 1%	DNI DNI
IRU3037A	0.9V	1.00K 1%	8.06K 1%	DNI
	1.2V	1.00K 1%	2.00K 1%	DNI
	1.25V	976R 1% 1.00K 1%	1.62K 1% 1.78K 1%	DNI DNI
	1.5V	1.00K 1%	1.15k 1%	DNI

Table for IRU3037, IRU3037A and ISL6522 with Alt. Compensation Circuit 2

Part	Rc1		Rc2	Rc3				
IRU3037	0.9V	1.00K 1%	DNI	1.56K 1%				
	1.2V	1.00K 1%	DNI	11K 1%				
	1.25V	1.00K 1%	DNI	DNI				
	1.5V	1.00K 1%	4.99K 1%	DNI				
IRU3037A	0.9V	1.00K 1%	8.06K 1%	DNI				
ISL6522C	1.2V	1.00K 1%	2.00K 1%	DNI				
	1.25V	1.00K 1%	1.78K 1%	DNI				
	1.5V	1.00K 1%	1.15k 1%	DNI				

Compensation Options for VDDC Regulator

Alt. Compensation 1

This compensation circuit is simplified and will only work with the IRU3037(A) Regulator

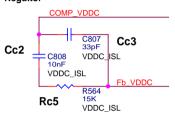
Regulator C805
2.2nF
R563 VDDC
27K CC4
RC6

SS VDDC C806 100nF

Common

Alt. Compensation 2

This is required for the ISL6522CB regulator, and provides maximum regulation speed for IRU3037 Regultor



Note: Alternative Compensation Circuit 2 will only work if Rc1 is a 1k Ohm Resistor. Alternative Compensation Circuit 1 has no requirements for the divider circuit.

Cout1 470uF thru hole capacitor (P/N 4051047700) has 30mR ESR where as 470uF SMT (P/N 4262047700) capacitor has 150mR ESR. For current below 4.5A, 1 thru 470uF is enough.

*** Indicates number of vias required for the connection

Part	INSTALL	Compensation Circuit	DO NOT INSTALL
IRU3037 IRU3037A	Alternative1	Common, and Either Alt. Compensation 1, or Alt. Compensation 2	Cc4, Rc6 Alternative 2
ISL6522CB	Alternative2	Common and Alt. Compensation 2	Alternative1



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