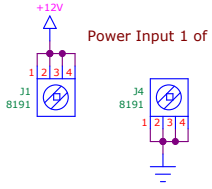


The operating frequency is adjustable from 150kHz to 300kHz by the voltage on PLLFLTR. The frequency is 220kHz when the voltage is approximately 1.2V.

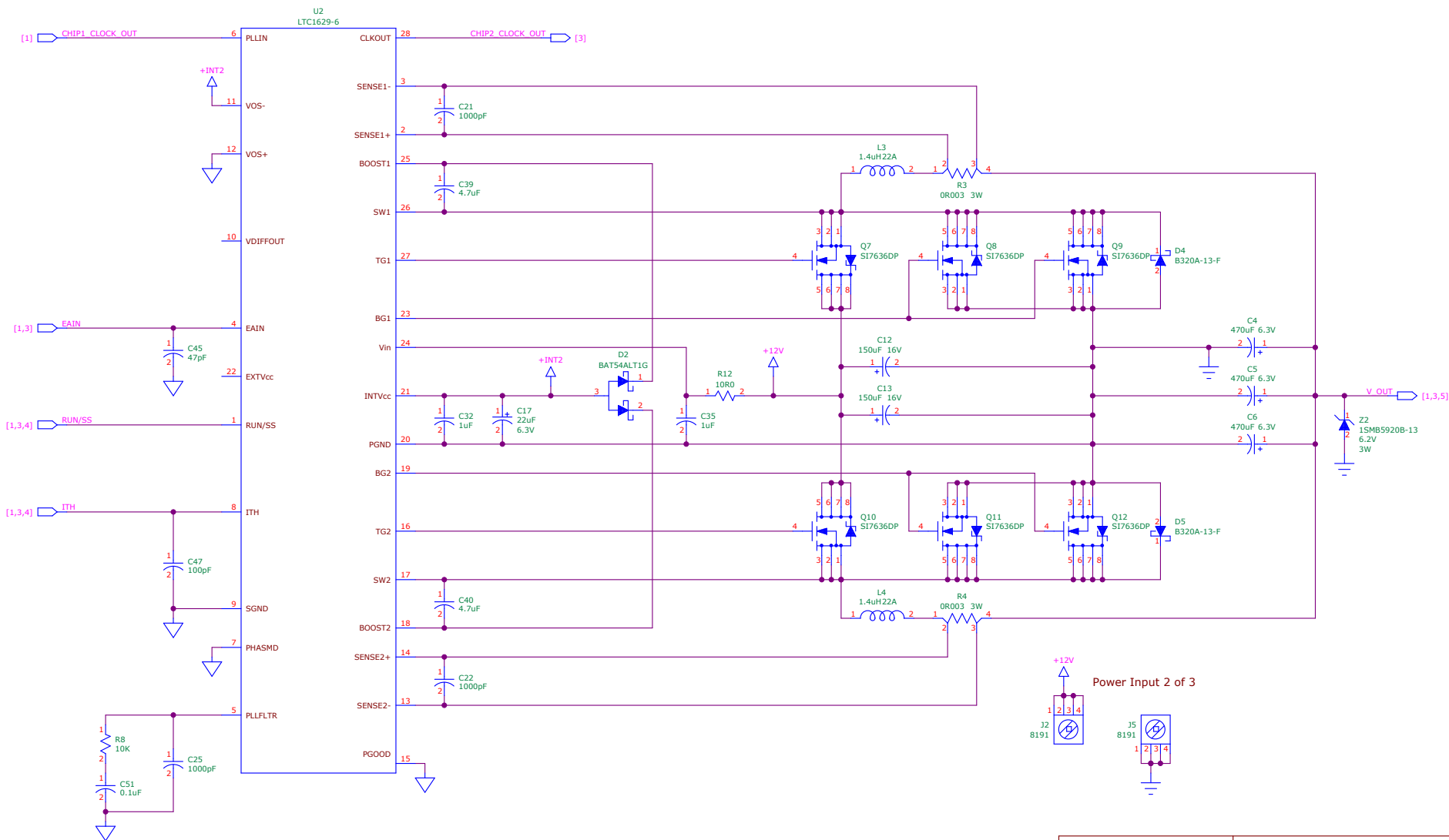
$$V(PLLFLTR) = (R10 / (R10 + R16)) * INT1 = (24000 / (24000 + 75000)) * 5 = 1.21 \text{ Volts}$$

The maximum output voltage of the switching regulator is reached when EAIN is at 0.6 volts. A differential amplifier senses the output voltage and produces VDIFFOUT. This voltage is divided by R14 and R15 so that EAIN is at 0.6 volts when the desired maximum output voltage has been reached.

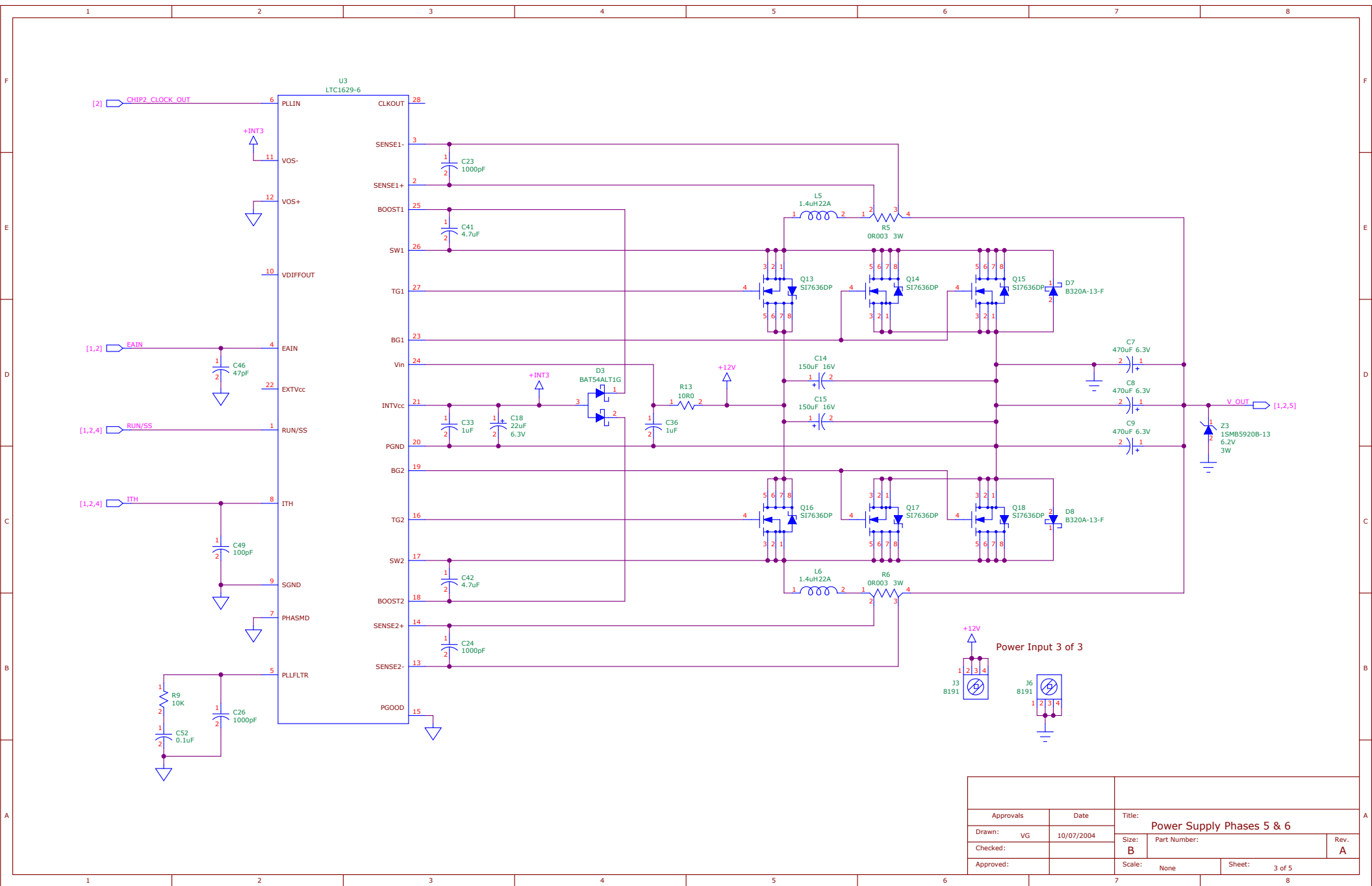
$$VDIFFOUT = 0.6 * (R14 + R15) / R14 = 0.6 * (6040 + 27400) / 6040 = 3.322$$



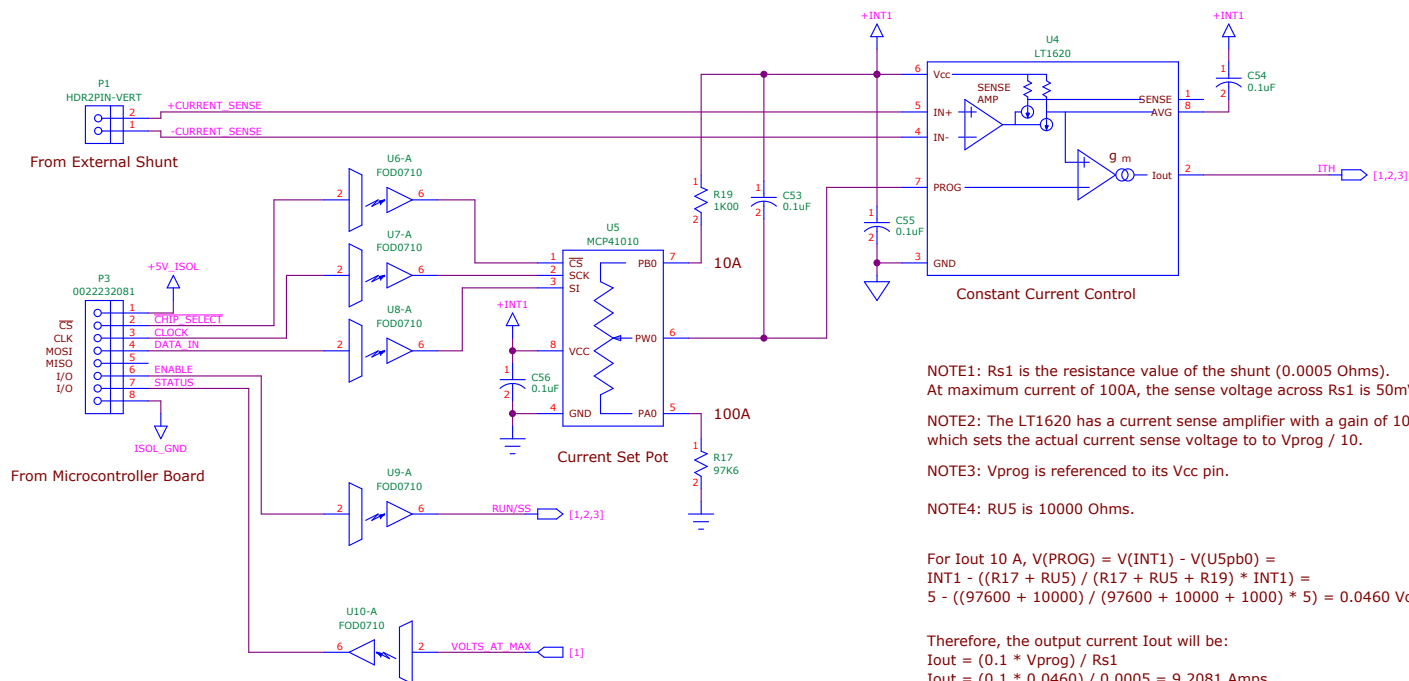
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Drawn: VG		10/07/2004		Size: B	Part Number:	Rev. A
Checked:				Scale: None		
Approved:				Sheet: 1 of 5		



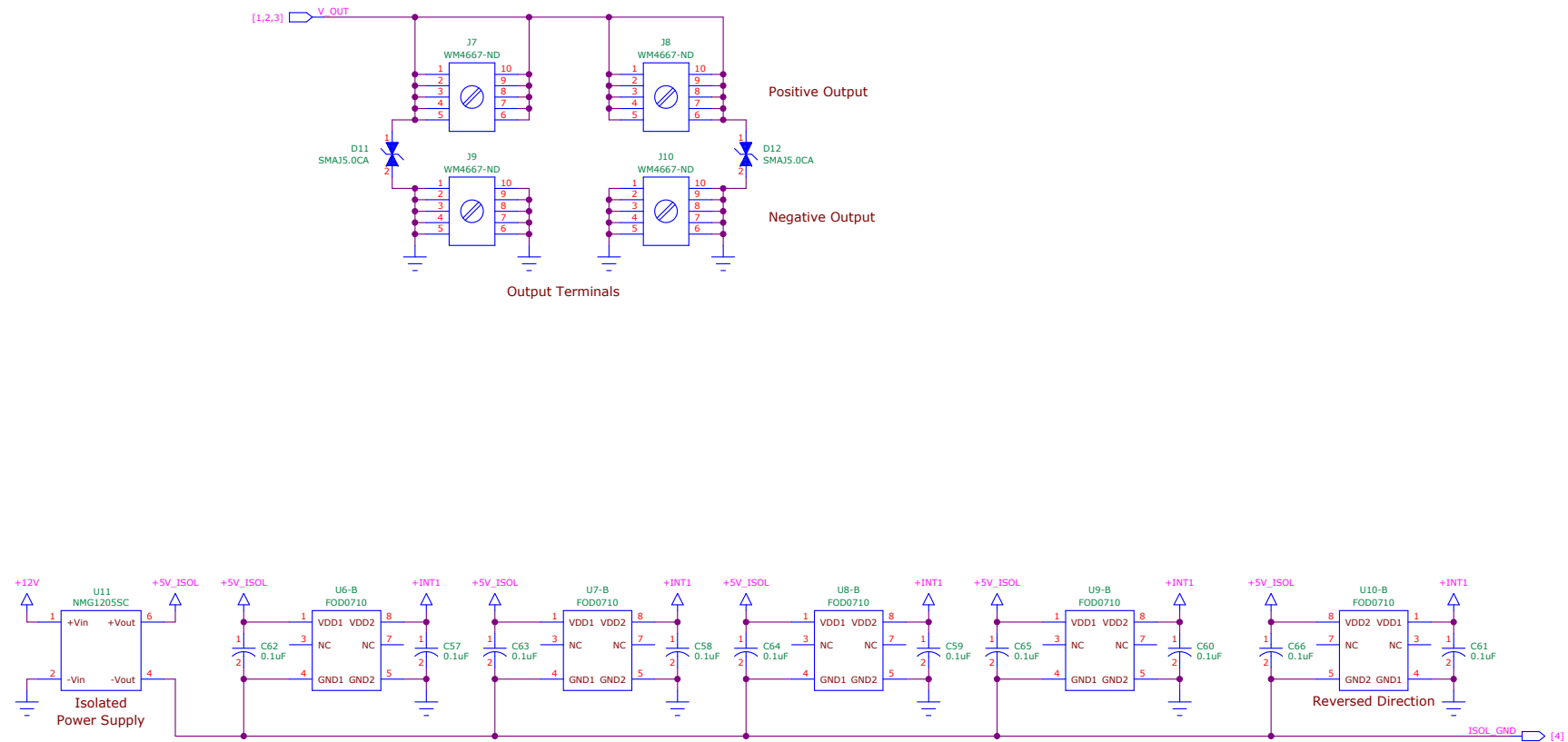
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Drawn: VG		10/07/2004		Power Supply Phases 3 & 4	
Checked:				Size: B	Part Number:
Approved:				Rev. A	
				Scale: None	Sheet: 2 of 5



		Title: Power Supply Phases 5 & 6		
Approvals	Date	Size: B	Part Number:	Rev. A
Drawn: VG	10/07/2004			
Checked:				
Approved:		Scale: None	Sheet: 3 of 5	



Approvals		Date		Title:	
Drawn: VG		10/07/2004		Power Supply Current Adjust	
Checked:				Size: B	Part Number:
Approved:				Rev. A	
				Scale: None	Sheet: 4 of 5



Approvals		Date	Title: Miscellaneous		
Drawn: VG		10/07/2004	Size: Part Number:		Rev. A
Checked:			Scale:		
Approved:			Sheet: 5 of 5		