



- ⚠ Open
- ⚠ Power dissipation limitations of D2, the SMC packaged SS32 diode, limit the ambient temperature of this design to 55C. A diode in a larger package, like DDPAK, may be required.
- ⚠ PR389 design modified for VIN = 3.3V, VOUT2 = 2.5V and IOUT1 = IOUT2 up to 3A. PR389 bare board available with jumpers that allow independent enable of VOUT2 = 3.3V, VOUT3 = 2.5V then VOUT1 = 1.2V sequencing

Title	TPS75003		
Size	Number	Rev	
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Filename: PR428_bom.xls					
Date: 01/03/2005					
<b>PR428 BOM</b>					
COUNT	RefDes	DESCRIPTION	SIZE	Part Number	MFR
1	C1	Capacitor, POSCAP, 220-uF, 6.3-V, 40-milliohm, 20%	7343(D)	6TPB220ML	Sanyo
1	C10	Capacitor, Ceramic, 10-pF, 50-V, C0G, 5%	0603	C1608C0G1H100D	TDK
0	C11	Capacitor, Ceramic, xx-uF, xx-V	0603		
2	C12, C13	Capacitor, POSCAP, 220-uF, 4-V, 55-milliohm, 20%	7343(D)	4TPB220ML	Sanyo
1	C14	Capacitor, Ceramic, 10-uF, 10-V, X5R, 20%	0805	C2012X5R1A106MT	TDK
2	C2, C4	Capacitor, Ceramic, 0.1-uF, 16-V, X7R, 10%	0603	C1608X7R1C104K	TDK
2	C3, C5	Capacitor, Ceramic, 1200-pF, 50-V, X7R, 10%	0603	C1608X7R1H122K	TDK
1	C6	Capacitor, Ceramic, 1.0-uF, 6.3-V, X5R, 10%	0603	C1608X5R0J105K	TDK
1	C7	Capacitor, Ceramic, 0.01-uF, 50-V, X7R, 10%	0603	C1608X7R1H103K	TDK
2	C8, C9	Capacitor, Ceramic, 22-uF, 6.3-V, X5R, 20%	0805	C2012X5R0J226MT	TDK
2	D1, D2	Diode, Schottky, 3.0-A, 20-V	SMC	SS32	Vishay
6	J1 - J6	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
2	J7, J8	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 x 2	PTC36SAAN	Sullins
2	JP1, JP3	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	PTC36SAAN	Sullins
1	JP2	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 x 2	PTC36SAAN	Sullins
1	L1	Inductor, SMT, 3.3-uH, 4.8-A, 18.2-milliohm	0.327 X 0.327	CDRH8D28-3R3	Sumida
1	L2	Inductor, SMT, 6.8-uH, 4.2-A, 25-milliohm	0.327 X 0.327	CDRH8D43-6R8	Sumida
2	Q1, Q2	MOSFET, P-ch, -12V, -7.6-A, 31-milliohm	1206-8	Si5475DC	Siliconix
3	R1, R2, R3	Resistor, Chip, 100k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R10	Resistor, Chip, 0-Ohms, 1/16W, 5%	0603	Std	Std
0	R11	Resistor, Chip, xx-Ohms, 1/16-W, 1%	0603		
2	R4, R5	Resistor, Chip, 0.020-Ohms, ¼ W, 1%	1210	Std	Std
2	R6, R8	Resistor, Chip, 619k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R7	Resistor, Chip, 154k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R9	Resistor, Chip, 604k-Ohms, 1/16-W, 1%	0603	Std	Std
1	U1	IC, Triple Channel DC/DC Converter	QFN-20	TPS75003RGY	TI
3	--	Shunt, 100-mil, Black	0.100	929950-00	3M

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Mailing Address: Texas Instruments  
Post Office Box 655303 Dallas, Texas 75265