

4.0 Bill Of Materials

Part	Manufacturer	Part#	Attributes
C1	TDK	C4532X5R1H225	22u F
C10	TDK	C3225X7R1H105K	1u F
C11	TDK	C3225X7R1H105K	1u F
C12	TDK	C3225X5R1E106	10u F
C13	TDK	C3225X7R1H105K	1u F
C14	Vishay	VJ0805A101KXXA	100p F
C19	Vishay	VJ0805A101KXXA	330p F
C2	Vishay	VJ0805Y472KXXA	4.7n F
C21	TDK	C3225X5R1E106	10u F
C42	Sanyo	35MV330WX	330u F
C5	Vishay	VJ0805Y104KXXA	0.1u F
C6	Vishay	VJ0805Y103KXXA	10n F
D1	ONSEMI	MBRS260	0.63 V
L1	Pulse	P1169.104	100u H, 0.27 Ohms
L2	Pulse	P1169.104	100u H, 0.27 Ohms
M1	Vishay	SI4850EY	
R1	Vishay	CRCW08052802F	28k Ohms
R10	Vishay	CRCW08051002F	10k Ohms
R11	Vishay	CRCW08058663F	866k Ohms
R13	Vishay	CRCW08052001F	2k Ohms
R14	Vishay	CRCW08051622F	16.2k Ohms
R15	Vishay	CRCW08059092F	90.9k Ohms
R19	Vishay	WSL1210 0.25R	0.25 Ohms
R2	Vishay	CRCW08053162F	31.6k Ohms
R3	Vishay	CRCW08053010F	301 Ohms
R4	Vishay	CRCW08052101F	2.1k Ohms
R9	Vishay	CRCW08051003F	100k Ohms
U1	National Semiconductor	LM5020	
U7	National Semiconductor	LP2951	

5.0 Waveforms



PADC_NSC0430B_wf_1

FIGURE 2. 16V Transient Response



FIGURE 3. 18V Output Ripple

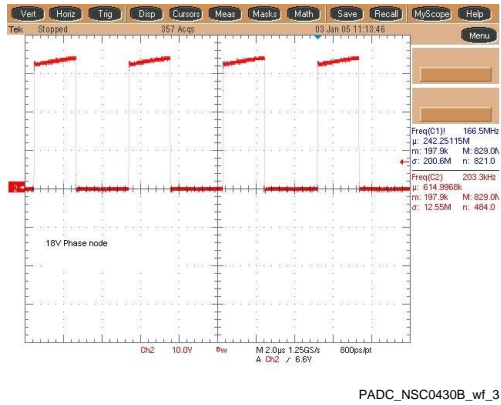


FIGURE 4. 18V Phase Node

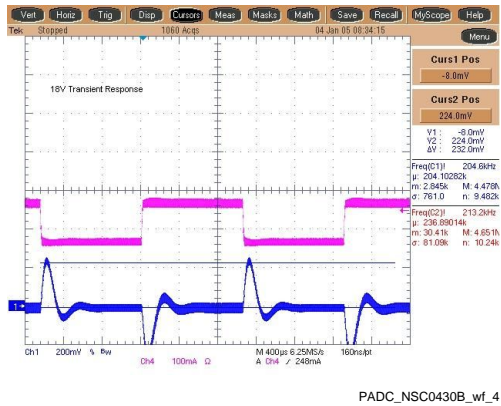


FIGURE 5. 18V Transient Response

Notes

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 - (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
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