

IC Solution Brochure

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I. Flagship Product

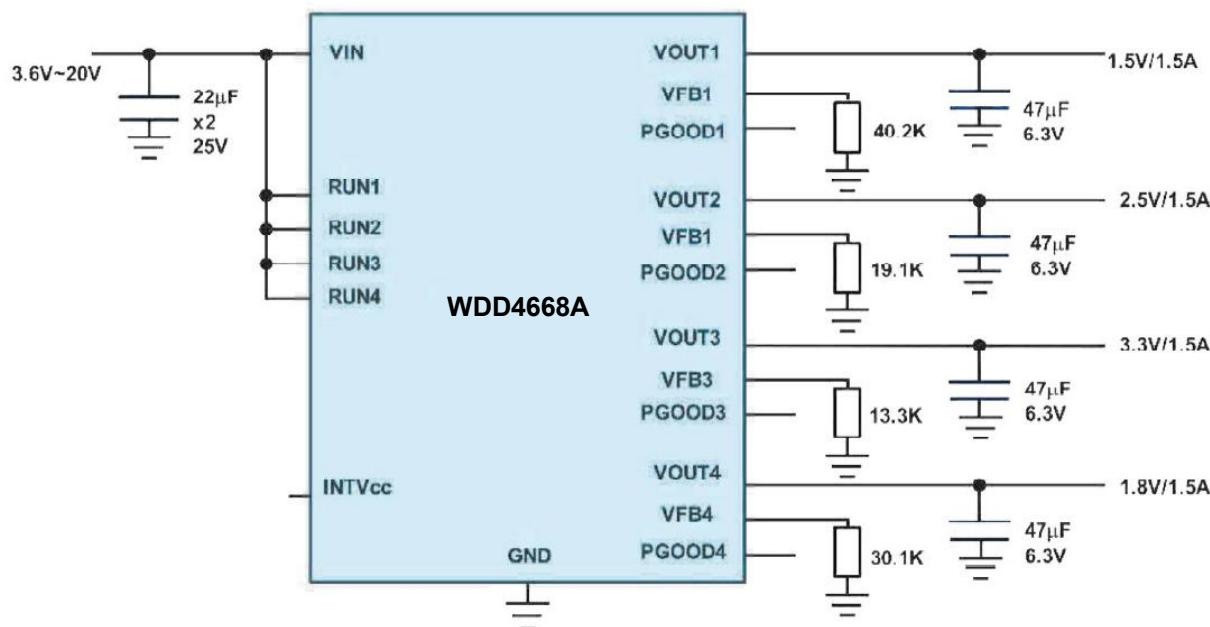
WDD4668A: Quad DC-DC µModule Regulator with Configurable 1.5A Output Array

Features

- Input voltage: 3.6~20V
- Output voltage: 0.6~5.5V
- Quad output µModule regulator with 1.5A per output channel, or dual output with 3.0A
- Typical voltage regulation: 0.1%
- Typical load regulation: 0.1%
- Current mode control, fast transient response
- Over-current, short-circuit, over-temperature protection
- Input under-voltage protection
- PGOOD
- BGA package: 6.25x6.25x2.22mm

Applications

- FPGA, DSP power supply
- Communication networks
- Storage



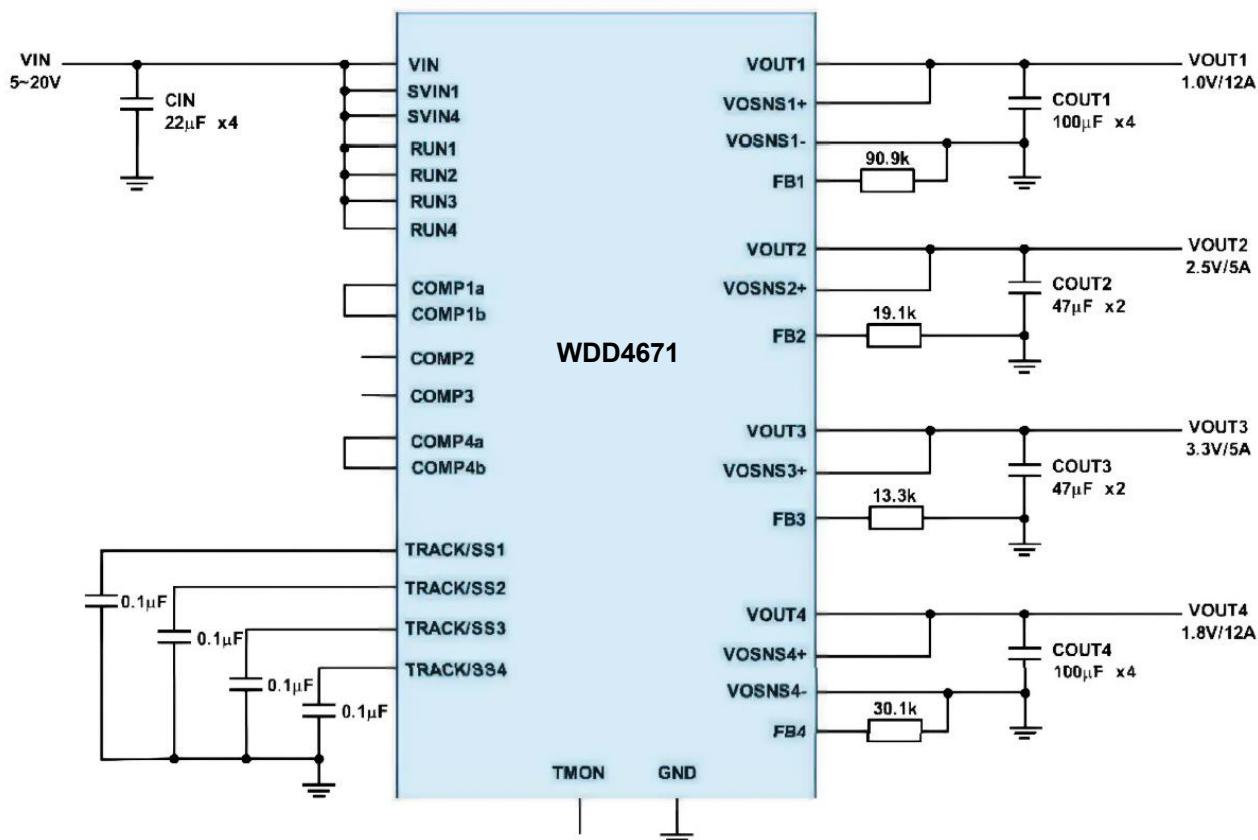
WDD4671: Quad DC-DC µModule Regulator with Configurable Dual 12A, Dual 5A Output Array

Features

- Input voltage: 3.1~20V
- Output voltage: channel 1&4: 0.6~3.3V; channel 2&3: 0.6~5.5V
- Output current: channel 1&4: 12A; channel 2&3: 5A
- Typical voltage regulation: 0.1%
- Typical load regulation: 0.1%
- External frequency synchronization
- Facilitate remote sampling
- Parallelable
- Output voltage tracking and soft-start
- Selectable BURST mode operation
- Internal temperature sensing diode output
- Over-current, over-temperature protection
- BGA package: 16x9.5x4.72mm

Applications

- FPGA, DSP power supply
- Multi-rail point of load regulation



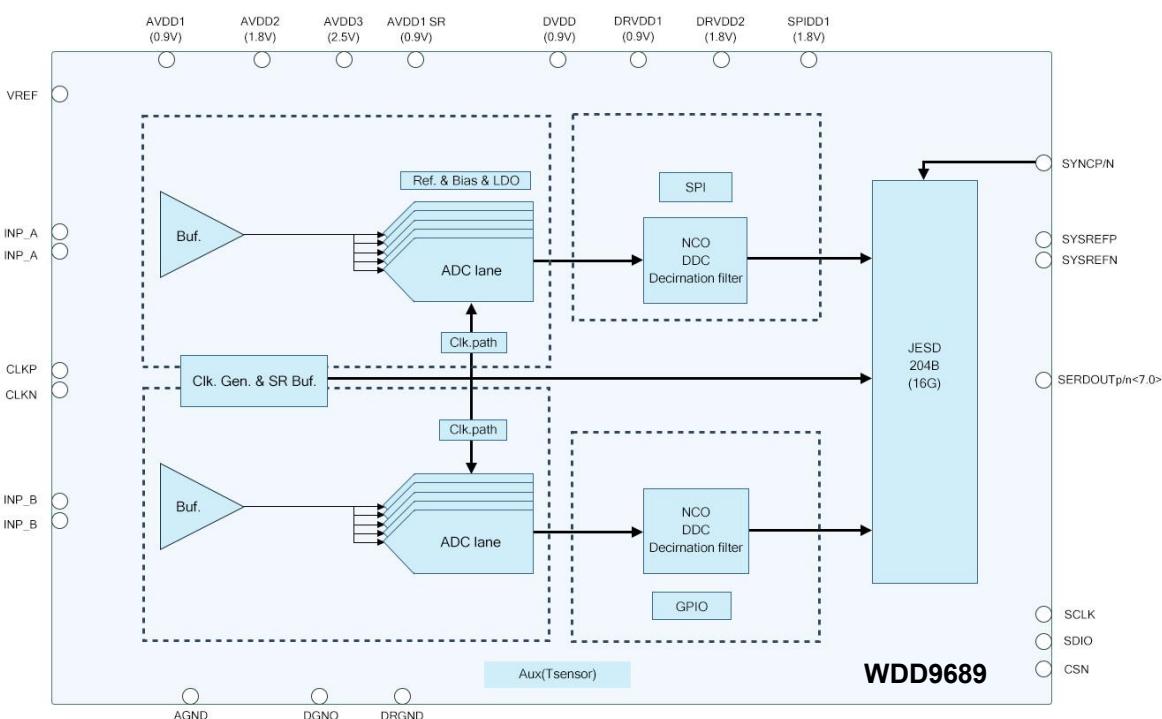
WDD9689: 14-bit 2.6GSPS, JESD204B, Dual Analog-to-Digital Converter

Features

- Maximum sampling rate: 2.6GSPS
- Resolution: 14-bit, allow 12-bit resolution configuration
- Signal-to-noise ratio (SNR):
 - 55dBFS@Fin=1100MHz (-2dBFS), 2.0GSPS
 - 54dBFS@Fin=1900MHz (-2dBFS), 2.0GSPS
- Spurious-free dynamic range (SFDR):
 - 69dBFS@Fin=1100Mhz (-2dBFS), 2.0GSPS
 - 62dBFS@Fin=1900MHz (-2dBFS), 2.0GSPS
- Supply voltage: 0.975V, 1.9V, 2.5V
- Noise density: -145dBFS/Hz
- 2 integrated, wideband digital processors per channel 48-bit NCO
- Programmable decimation rates
- JESD204B (subclass 1) encoded serial digital outputs
- Low power consumption:
 - total power dissipation: 1.1W@2.4GSPS (DSP bypass); 1.2W@2.6GSPS (DSP bypass)
- Compatible to AD9689

Applications

- Diversity multi-band and multi-mode digital receivers
- 3G/4G, W-CDMA, and GSM, LTE, LTE-A
- Electronic test and measurement system
- Phased array radar and electronic warfare



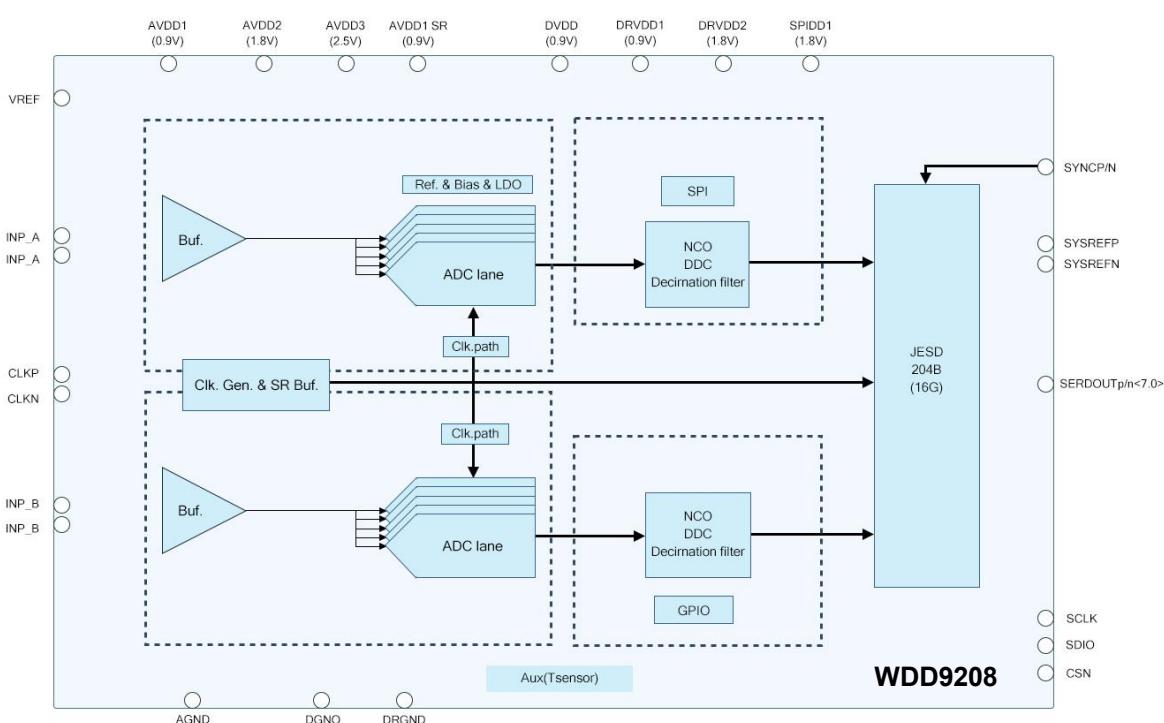
WDD9208: 14-bit, 3.2GSPS, JESD204B, Dual-channel Analog-to-Digital Converter

Features

- Maximum sampling rate: 3.2GSPS
- Resolution: 14-bit, allow 12-bit resolution configuration
- Signal-to-noise ratio (SNR):
 - 55dBFS@Fin=1100Mhz (-2dBFS), 2.0GSPS
 - 54dBFS@Fin=1900MHz (-2dBFS), 2.0GSPS
- Spurious-free dynamic range (SFDR):
 - 69dBFS@Fin=1100MHz (-2dBFS), 2.0GSPS
 - 62dBFS@Fin=1900MHz (-2dBFS), 2.0GSPS
- Supply voltage: 0.975V, 1.9V, 2.5V
- Noise density: -145dBFS/Hz
- 2 integrated, wideband digital processors per channel 48-bit NCO
- Programmable decimation rates
- JESD204B (subclass 1) encoded serial digital outputs
- Low power consumption:
 - total power dissipation: 1.1W@2.4GSPS (DSP bypass); 1.2W@2.6GSPS (DSP bypass)
- Compatible to AD9208

Applications

- Diversity multi-band and multi-mode digital receivers
- 3G/4G, W-CDMA, and GSM, LTE, LTE-A
- Electronic test and measurement system
- Phased array radar and electronic warfare



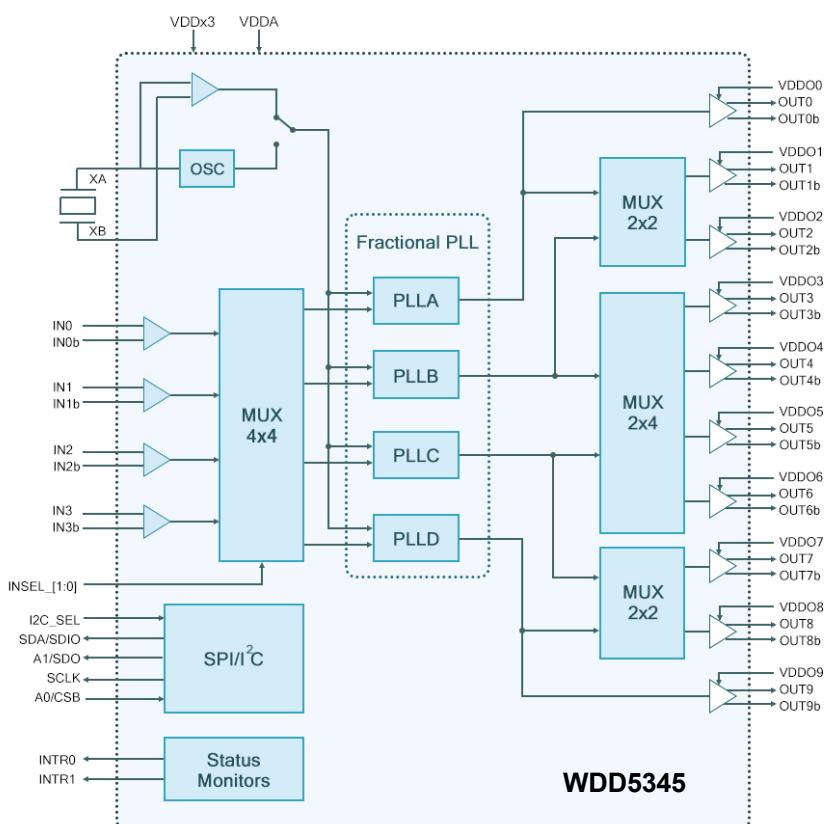
WDD5345: 10-channel Clock Multiplier

Features

- Generates any combination of output frequency from any input frequency.
- Ultra-low jitter of 90 fs rms
- Input frequency:
external crystal oscillator: 25~54MHz
differential: 10~750MHz
LVCMS: 10~250MHz
- Programmable signal amplitude
- Output frequency:
differential: 100Hz~900MHz
LVCMS: 100Hz~250MHz
- Highly configurable outputs compatible with LVDS, LVPECL, LVCMS, CML, and HCSL
- QFN-64 package: 9x9mm

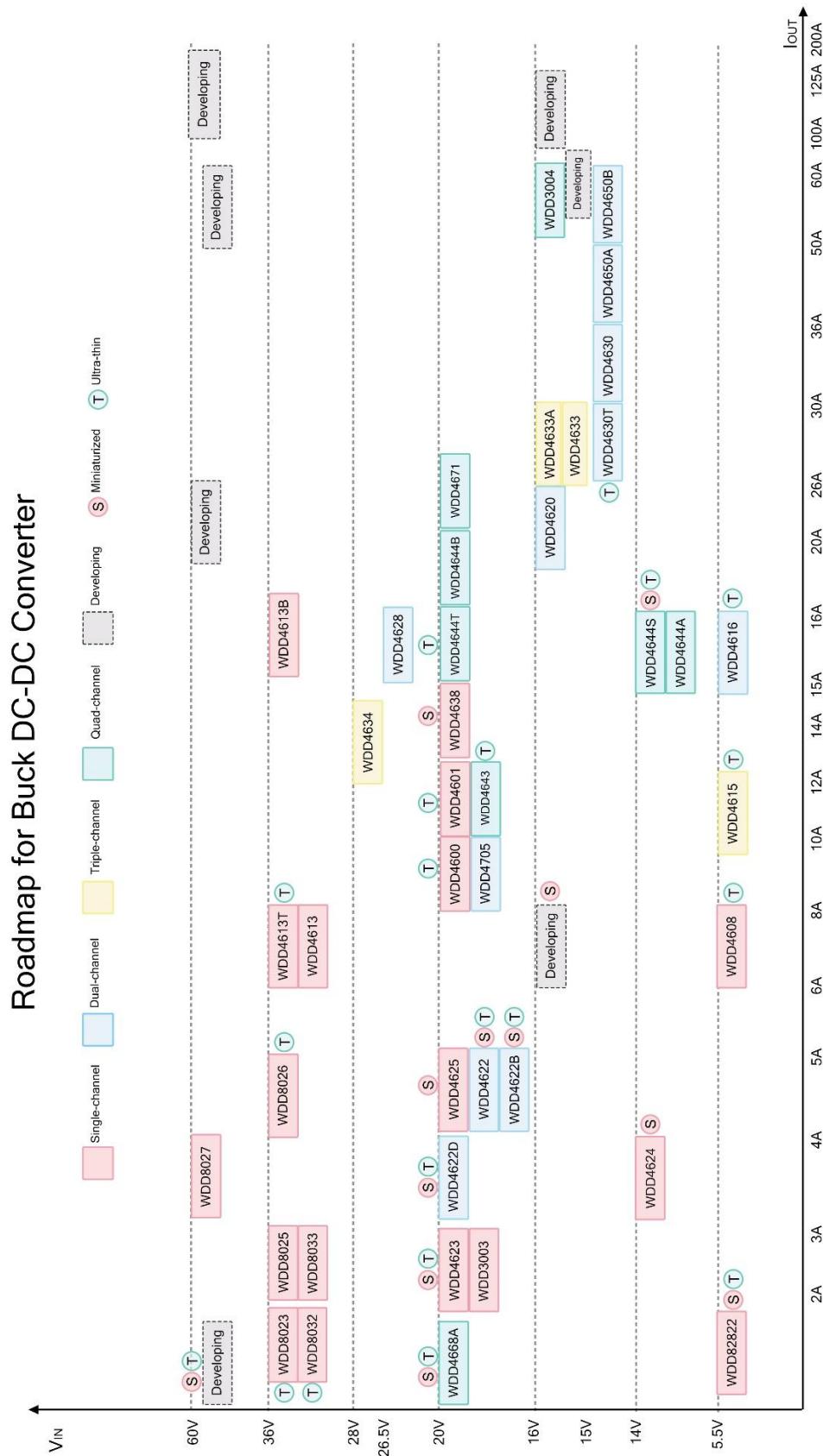
Applications

- Any frequency clock conversion
- FPGA, processor and memory clock
- Ethernet switch/ router
- Test equipment and instrument
- Broadcast video
- Clock tree generator replaces XO, buffer, signal format converter



II. Buck DC-DC Converter

Roadmap for Buck DC-DC Converter



Product List

Table 1 - Buck DC-DC Converter

Part Number	Compliable to	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package		
			Min.	Max.	Min.	Max.		Size (mm)	Type	Category
WDD3003	-	1	4	20	0.6	5.5	3	3.00x3.00x1.81	LGA	Plastic
WDD3004	-	4	4	20	0.6	3.3	20	22.0x13.0x4.80	BGA	Plastic
WDD4600	LTM4600	1	4.5	20	0.6	5.0	10	15.0x15.0x2.80	LGA	Plastic
								15.0x15.0x3.55	BGA	
								16.0x16.0x4.15	BGA	Cermet
WDD4601	LTM4601	1	5	24	0.6	5.0	12	15.0x15.0x2.82	LGA	Plastic
								15.0x15.0x3.42	BGA	
								16.0x16.0x4.16	BGA	Cermet
WDD4608	LTM4608	1	2.7	5.5	0.6	5.0	8	15.0x9.00x2.82	LGA	Plastic
								15.0x9.00x3.42	BGA	
								16.0x10.0x4.10	BGA	Cermet
WDD4613	LTM4613	1	5.0	36	3.3	15	8	15.0x15.0x4.32	LGA	Plastic
								15.0x15.0x4.92	BGA	
								16.0x16.0x5.25	BGA	Cermet
WDD4613T	LTM4613	1	5.0	36	3.3	15	8	15.0x15.0x2.82	LGA	Plastic
								15.0x15.0x3.42	BGA	
WDD4613B	LTM4613	1	5.0	36	3.3	15	16	15.0x15.0x4.32	LGA	Plastic
								15.0x15.0x4.92	BGA	
WDD4615	LTM4615	3	3.3 1.1	5.5	0.6 0.8	5.0 3.5	6 1.5	15.0x15.0x2.82	LGA	Plastic
								15.0x15.0x3.42	BGA	
								16.0x16.0x4.10	BGA	Cermet
WDD4616	LTM4616	2	2.7	5.5	0.6	5.0	8	15.0x15.0x2.82	LGA	Plastic
								15.0x15.0x3.42	BGA	
								16.0x16.0x4.10	BGA	Cermet

Table 1 - Buck DC-DC Converter (Conti.)

Part Number	Compliable to	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package		
			Min.	Max.	Min.	Max.		Size (mm)	Type	Category
WDD4620	LTM4620	2	4.5	16	0.6	5.3	13	16.0x16.0x4.41	LGA	Plastic
								16.0x16.0x5.00	BGA	
								17.0x17.0x5.25	BGA	Cermet
WDD4622	LTM4622	2	3.6	20	0.6	5.5	2.5	6.25x6.25x1.82	LGA	Plastic
								6.25x6.25x2.42	BGA	
								9.00x9.00x4.40	BGA	Cermet
WDD4622B	LTM4622	2	3.6	20	0.6	5.5	2.5	6.25x6.25x1.82	LGA	Plastic
								6.25x6.25x2.42	BGA	
WDD4622D	-	2	3.6	20	0.6	5.5	2.0	4.50x2.70x2.30	QFN	Plastic
WDD4623	LTM4623	1	4	20	0.6	5.5	3	6.25x6.25x1.82	LGA	Plastic
								6.25x6.25x2.42	BGA	
WDD4624	LTM4624	1	4	14	0.6	5.5	4	6.25x6.25x4.41	LGA	Plastic
								6.25x6.25x5.01	BGA	
WDD4625	LTM4625	1	4	20	0.6	5.5	5	6.25x6.25x4.41	LGA	Plastic
								6.25x6.25x5.01	BGA	
WDD4628	LTM4628	2	4.5	26.5	0.6	5.5	8	15.0x15.0x4.32	LGA	Plastic
								15.0x15.0x4.92	BGA	
								16.0x16.0x5.20	BGA	Cermet
WDD4630	LTM4630	2	4.5	15	0.6	5.3	18	16.0x16.0x4.41	LGA	Plastic
								16.0x16.0x5.00	BGA	
								18.0x18.0x6.35	BGA	Cermet
WDD4630T	LTM4630	2	4.5	15	0.6	5.3	15	16.0x16.0x2.91	LGA	Plastic
								16.0x16.0x3.51	BGA	
WDD4633	LTM4633	3	4.7	16	0.8 0.8	1.8 5.5	10	15.0x15.0x5.01	BGA	Plastic
WDD4638	LTM4638	1	3.1	20	0.6	5.5	15	6.25x6.25x4.92	BGA	Plastic

Table 1 - Buck DC-DC Converter (Conti.)

Part Number	Compliable to	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package		
			Min.	Max.	Min.	Max.		Size (mm)	Type	Category
WDD4643	LTM4643	4	4	20	0.6	3.3	3	15.0x9.00x1.82	LGA	Plastic
								15.0x9.00x2.42	BGA	
								18.0x12.0x4.70	BGA	Cermet
WDD4644	LTM4644	4	4	14	0.6	5.5	4	15.0x9.00x4.41	LGA	Plastic
								15.0x9.00x5.00	BGA	
								18.0x12.0x5.11	BGA	Cermet
WDD4644B	LTM4644	4	4	20	0.6	5.5	5	15.0x9.00x4.41	LGA	Plastic
								15.0x9.00x5.01	BGA	
WDD4644S	-	4	4	14	0.6	5.5	4	8.00x8.00x2.20	BGA	Plastic
WDD4644T	LTM4644	4	4	20	0.6	5.5	4	15.0x9.00x1.82	LGA	Plastic
								15.0x9.00x2.42	BGA	
WDD4650	LTM4650	2	4.5	15	0.6	1.8	25	17.0x17.0x4.41	LGA	Plastic
								17.0x17.0x5.00	BGA	
WDD4650A	-	2	4.5	15	0.6	1.8	25	16.0x16.0x4.51	LGA	Plastic
								16.0x16.0x5.01	BGA	
WDD4650B	-	2	4.5	15	0.6	1.8	30	16.0x16.0x4.40	LGA	Plastic
								16.0x16.0x5.00	BGA	
WDD4668A	LTM4668A	4	3.6	20	0.6	5.5	1.5	6.25x6.25x2.22	BGA	Plastic
WDD4671	LTM4671	4	3.1	20	0.6	3.3	12	16.0x9.50x4.72	BGA	Plastic
WDD4700-1	-	1	5	16	0.5	1.8	120	22.0x16.0x5.50	BGA	Plastic
WDD4700-2	-	2	5	16	0.5	1.8	60	22.0x16.0x5.50	BGA	Plastic
WDD4705	LTM4705	2	3.3	20	0.6	5.5	5	6.25x7.50x3.22	BGA	Plastic
WDD8023	LTM8023	1	3.6	36	0.8	10	2	11.25x9.00x2.82	LGA	Plastic
								11.25x9.00x3.42	BGA	
								12.25x10.0x4.52	BGA	Cermet

Table 1 - Buck DC-DC Converter (Conti.)

Part Number	Compliable to	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package		
			Min.	Max.	Min.	Max.		Size (mm)	Type	Category
WDD8025	LTM8025	1	3.6	36	0.8	24	3	15.0x9.00x4.32	LGA	Plastic
								15.0x9.00x4.92	BGA	
								16.0x10.0x5.40	BGA	Cermet
WDD8026	LTM8026	1	6.0	36	1.2	24	5	15.0x11.25x2.82	LGA	Plastic
								15.0x11.25x3.42	BGA	
								16.0x12.25x4.65	BGA	Cermet
WDD8027	LTM8027	1	4.5	60	2.5	24	4	15.0x15.0x4.32	LGA	Plastic
								15.0x15.0x4.92	BGA	
WDD8032	LTM8032	1	3.6	36	0.8	10	2	15.0x9.00x2.82	LGA	Plastic
								15.0x9.00x3.42	BGA	
WDD8033	LTM8033	1	3.6	36	0.8	24	3	15.0x11.25x4.32	LGA	Plastic
								15.0x11.25x4.92	BGA	
WDD82822	TPSM82822	1	2.5	5.5	0.6	4	2	2.50x2.00x1.35	µSiL	Plastic
WDD04050	PTN04050A	1	4.0	14	-5	-5	1.5	22.1x12.57x6.00	Open board	-
WDD05000	PTH05000	1	4.5	5.5	0.9	3.6	6	19.92x13.57x8.50	Gold sealed	-
WDD05060	PTH05060WAD	1	5.0	18	0.8	3.6	8	25.27x15.75x8.50	Open board	-

Table 2 - Buck-Boost DC-DC Converter

Part Number	Compliable to	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package		
			Min.	Max.	Min.	Max.		Size (mm)	Type	Category
WDD8055	LTM8055	1	6	36	1.2	36	8.5 3	15.0x15.0x4.32	LGA	Plastic
								15.0x15.0x4.92	BGA	
WDD8056	LTM8056	1	6	58	1.2	48	5.4 1.7	15.0x15.0x4.32	LGA	Plastic
								15.0x15.0x4.92	BGA	
WDD4609	LTM4609	1	4.5	36	0.8	34	10 4	15.0x15.0x2.82	LGA	Plastic
								15.0x15.0x3.42	BGA	
								16.0x16.0x4.40	BGA	Ceramic

III. Multi-Phase Digital Controller

Part Number	Number of Phase	Switching Frequency (KHz)		Number of Output Voltage Rails	Package		
		Min.	Max.		Size (mm)	Type	Category
WDD3308	8	300	1000	2	5.00x5.00x0.85	QFN	Plastic

IV. Smart Power Stage

Part Number	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package		
		Min.	Max.	Min.	Max.		Size (mm)	Type	Category
WDD3760	1	3.0	16	0.25	5.5	60	6.00x5.00x0.90	LGA	Plastic
WDD3769	1	3.0	16	0.25	5.5	90	6.00x5.00x0.775	LGA	Plastic

V. Non-Isolated Buck DC-DC Controller

Part Number	Compliable to	Number of Outputs	Input voltage (V)		Output Voltage (V)		Output Current (A)	Package	
			Min.	Max.	Min.	Max.		Type	Category
WDD3480	LT3480	1	5.5	36	0.79	20	2	DFN	Plastic

VI. Non-Isolated Buck-Boost DC-DC Controller

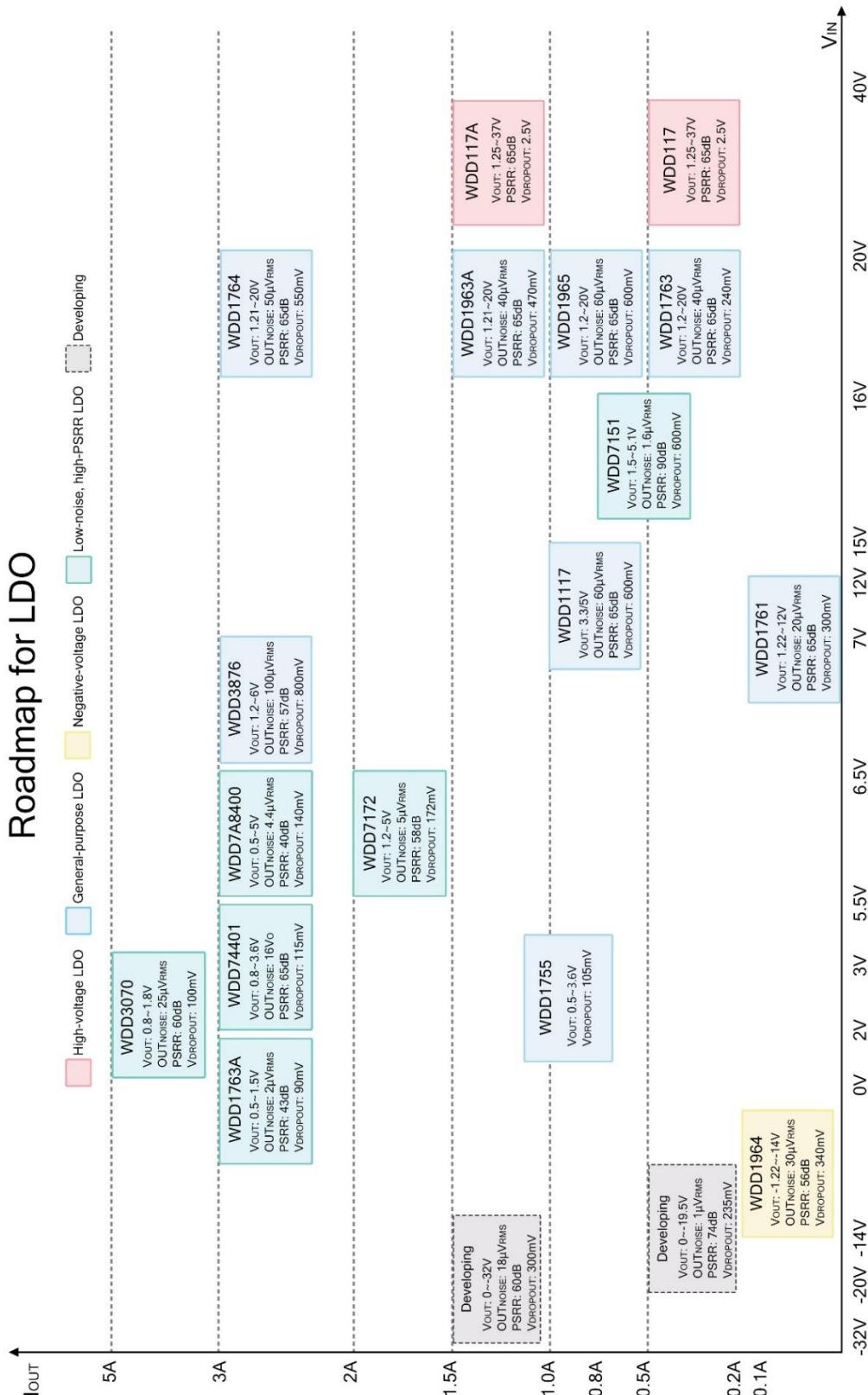
Part Number	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Package	
		Min.	Max.	Min.	Max.		Type	Category
WDD652103	1	3.0	20	0.9	20	1.1 (boost) 5 (buck)	QFN	Plastic

VII. Isolated DC-DC Converter

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Power (W)	Isolated Voltage (V)	Package			
			Min.	Max.	Min.	Max.			Size (mm)	Type	Category	
WDD8047	LTM8047	1	3.1	32	2.5	12	1.5	1kV DC	11.25x9.00x4.32	LGA	Plastic	
									11.25x9.00x4.92	BGA		
WDD8067	LTM8067	1	2.8	40	2.5	24	2.5	2kV DC	11.25x9.00x4.32	LGA	Plastic	
									11.25x9.00x4.92	BGA		
WCR010503	DCR010503U	1	4.5	5.5	3.3		1	500	17.9x7.50x5.50	FP28	Gold sealed	
WCR010505	DCR010505U	1	4.5	5.5	5		1	500	17.9x7.50x5.50	FP28	Gold sealed	
WCP010505BP-U	DCP010505BP-U	1	4.5	5.5	5		1	500	19.2x7.22x6.00	FP14	Gold sealed	
WCP010512BP-U	DCP010512BP-U	1	4.5	5.5	12		1	500	19.2x7.22x6.00	FP14	Gold sealed	
WCP010515BP-U	DCP010515BP-U	1	4.5	5.5	15		1	500	19.2x7.22x6.00	FP14	Gold sealed	
WCP020503	DCP020503U	1	4.5	5.5	3.3		2	500	17.9x7.50x6.00	FP-28B	Gold sealed	
WCP020505	DCP020505U	1	4.5	5.5	5		2	500	17.9x7.50x6.00	FP-28B	Gold sealed	
WCP020509U	DCP020509U	1	4.5	5.5	9		2	500	17.90x7.50x6.00	FP-28B	Gold sealed	
WCP020512	DCP020512U	1	4.5	5.5	12		2	500	17.9x7.50x6.00	FP-28B	Gold sealed	
WCP020505P	DCP020505P	1	4.5	5.5	5		2	500	19.2x7.50x6.00	DIP14	Gold sealed	
WCP020515DU	DCP020515DU	1	4.5	5.5	±15		2	500	17.9x7.50x6.00	FP-28C	Gold sealed	

VIII. Linear Voltage Regulator (LDO)

Roadmap for LDO



Product List

Table 3 - Low-dropout, low-noise, high-current LDO

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V_{DO} (mV)	Noise (μV_{RMS})	PSRR (dB)	Package						
			Min.	Max.	Min.	Max.					Type	Category					
WDD3070	LT3070	1	0.95	3.0	0.8	1.8	5	100	25	60	CQFN 28-K	Ceramic					
											QFN	Plastic					
WDD7172	ADM7172	1	2.3	6.5	1.2	5.0	2	172	5	58	DFN8	Plastic					
			1.3+ V_{DO}	6.5	1.3							Plastic					
			1.8+ V_{DO}		1.8												
			2.5+ V_{DO}		2.5												
			3.0+ V_{DO}		3.0												
			3.3+ V_{DO}		3.3												
			4.2+ V_{DO}		4.2												
			5.0+ V_{DO}		5.0												
WDD7A8400	TPS7A8300 TPS7A8400	1	1.1	6.5	0.8	5.0	3	180	4.4	40	VQFN20	Plastic					
WDD74401	TPS74401	1	1.1	5.5	0.8	3.6	3	160	16VO	65	CQFN20	Ceramic					
											VQFN20	Plastic					
											VQFN20S						
WDD1763	ADP1763	1	1.1	1.98	0.5	1.5	3	90	2.0	43	QFN16	Plastic					
			0.9+ V_{DO}		0.9												
			0.95+ V_{DO}		0.95												
			1.0+ V_{DO}		1.0												
			1.1+ V_{DO}		1.1												
			1.2+ V_{DO}		1.2												
			1.25+ V_{DO}		1.25												
			1.3+ V_{DO}		1.3												
			1.5+ V_{DO}		1.5												

Table 4 - General-purpose LDO

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	Noise (µV _{RMS})	PSRR (dB)	Package							
			Min.	Max.	Min.	Max.					Type	Category						
WDD1761	LT1761	1	1.8	12	1.22	12	0.1	300	20	65	SOT23-5	Plastic						
			3.3+V _{DO}		3.3													
			5.0+V _{DO}		5													
WDD1763M	LT1763	1	2.21	20	1.21	20	1.5	300	40	65	CQFN08	Ceramic						
			1.5+V _{DO}		1.5						S8	Plastic						
			1.8+V _{DO}		1.8													
			2.5+V _{DO}		2.5						CQFN08	Ceramic						
			3.3+V _{DO}		3.3													
			5+V _{DO}		5													
			1.5+V _{DO}	20	1.5		1.5	300	40	65	S8	Plastic						
			1.8+V _{DO}		1.8													
			2.5+V _{DO}		2.5													
			3.3+V _{DO}		3.3													
			5+V _{DO}		5													
WDD1117	AMS1117 LM1117	1	4.3	20	3.3		1.0	470	60	65	SOT-223/ TO-252	Plastic						
			6		5													
WDD1965M	LT1965	1	1.2+V _{DO}	20	1.2	20	1.1	600	60	65	DFN8	Plastic						
			1.5+V _{DO}		1.5													
			1.8+V _{DO}		1.8													
			2.5+V _{DO}		2.5													
			3.3+V _{DO}		3.3													
			5+V _{DO}		5.0													
WDD1755	ADP1755	1	1.6	3.6	0.75	3.3	1.2	105	23	65	CQFN16	Ceramic						

Table 4 - General-purpose LDO (Conti.)

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	Noise (µV _{RMS})	PSRR (dB)	Package							
			Min.	Max.	Min.	Max.					Type	Category						
WDD1963A	LT1963A	1	2.1	20	1.21	20	1.5	470	40	65	CQFN08/ DD-PAK	Ceramic						
			1.5+V _{DO}	20	1.5		1.5	470	40	65	CQFN08/ DD-PAK/ SM03	Plastic						
			1.8+V _{DO}		1.8													
			2.5+V _{DO}		2.5													
			3.3+V _{DO}		3.3													
			5+V _{DO}		5													
			1.5+V _{DO}	20	1.5		1.5	470	40	65	S8/ DD-PAK	Plastic						
			1.8+V _{DO}		1.8													
			2.5+V _{DO}		2.5													
			3.3+V _{DO}		3.3													
			5+V _{DO}		5													
WDD3876	LP3876	1	2.5	7.0	1.2	6.0	3	800	100	57	TO-05	Ceramic						
WDD6013	-	1	1.5+V _{DO}	20	1.5		1.5	470	40	65	SMD0.5	Ceramic						
			1.8+V _{DO}		1.8													
			2.5+V _{DO}		2.5													
			3.3+V _{DO}		3.3													
			5+V _{DO}		5													

Table 4 - General-purpose LDO (Conti.)

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	Noise (µVRMS)	PSRR (dB)	Package	
			Min.	Max.	Min.	Max.					Type	Category
WDD1764A	LT1764A	1	2.7	20	1.21	20	3	550	50	65	DD-PAK/CDFN16	Ceramic
					1.5						DD-PAK	Plastic
			1.5+V _{DO}	20	1.8						DD-PAK/CDFN16	Ceramic
					2.5							
			2.5+V _{DO}	20	3.3		3	550	50	65	DD-PAK	Plastic
					1.5							
					1.8							
					2.5							
			3.3+V _{DO}	20	3.3							
					1.5							

Table 5 - High-voltage LDO

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	PSRR (dB)	Package	
			Min.	Max.	Min.	Max.				Type	Category
WDD117	LM117	1	3	40	1.25	37	1.5	2.5	65	SMD0.5	Ceramic
							1.5			TO-257	
							1.2			SMD0.2	
							0.5			TO-39	
							0.5			TO-252	Plastic
							1.0			SOT-223	
							1.5			TO-263	
							1.5			TO-220	

Table 6 - Low-noise, high-PSRR LDO

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	Noise (μV _{RMS})	PSRR (dB)	Package	
			Min.	Max.	Min.	Max.					Type	Category
WDD7151	ADM7151	1	4.5	16	1.5	4.0	0.8	600	1.6	80	DFN8	Plastic
					1.5	5.1						
					1.5	4.0						
					1.5	5.1						

Table 7 - Bare Die LDO

Part Number	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	Noise (μV _{RMS})	PSRR (dB)	Die Size (μm)							
		Min.	Max.	Min.	Max.					Type	Category						
WT6011	1	1.1	5.5	0.8	3.6	3	115	16VO	65	2070x1770x260							
WDD7001	1	1.2	5.5	0.8	3.6	3	240	-	-	1040x710x260							
WT6012	1	2.1	20	1.2	20	1.5	470	40	65	3550x3030x260							
		1.5+V _{DO}		1.5													
		1.8+V _{DO}		1.8													
		2.5+V _{DO}		2.5													
		3.3+V _{DO}		3.3													
		5.0+V _{DO}		5													
WT6013	1	2.1	20	1.2	20	1.5	470	40	65	3030x2370x260							
		1.5+V _{DO}		1.5													
		1.8+V _{DO}		1.8													
		2.5+V _{DO}		2.5													
		3.3+V _{DO}		3.3													
		5.0+V _{DO}		5													
WS5001	1	2.7	20	0.8	18	0.3	500	-	-	1500x880x260							
WS5002A-5V	1	5.6	20	5	5	0.3	600	-	-	1290x1030x260							
WS5002B-3.3V	1	4.3	20	3.3	3.3	0.5	1000	-	-	1290x1030x260							

Table 8 - Negative-voltage LDO

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	V _{DO} (mV)	Noise (µVRMS)	PSRR (dB)	Package			
			Min.	Max.	Min.	Max.					Type	Category		
WDD1964	LT1964IS5-SD	1	-2.8	-14	-1.22	-14	-0.2	340	30	56	CDFN05	Ceramic		
	LT1964IS5-BYP										S5	Plastic		
	LT1964IS5-5		-5.5	-14	-5.0						CDFN05	Ceramic		
	LT1964IDD				-2.8	-14	-1.22	-14			S5	Plastic		
											CDFN05	Ceramic		
											S5	Plastic		
											DD	Plastic		

IX. DDR Termination Regulator

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Voltage (V)		Output Current (A)	Package	
			Min.	Max.	Min.	Max.		Type	Category
WDD51100	TPS51100	2	4.75	5.25	1.2	3.6 VDDQ/2	±3 0.01	MSOP	Plastic
WDD51200	TPS51200	2	2.375	3.5	1.1	3.5 VDDQ/2	±3 0.01	CDFN10	Ceramic
								VSON	Plastic
WDD4632	LTM4632	3	3.6	15	0.6	2.5 VDDQ/2	±3 0.01	LGA	Plastic
								BGA	

X. Health Management IC

Product List

Table 9 - Protection Switch

Part Number	Number of Outputs	Input Voltage (V)		Output Current (A)	OCP	NMOS	UVP	OVP	Package	
		Min.	Max.						Type	Category
WDD68M605	1	4	48	5	Y	Built-in	Y	Y	CSOP18	Ceramic
									QFN3x3-16	Plastic
WDD68M2202	1	2.8	22	2	Y	Built-in	Y	Y	SOT23-6	Plastic

Table 10 - Hot Swap Controller

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		OCP	NMOS	UVP	OVP	Package	
			Min.	Max.					Type	Category
WDD5069-1	LM5069-1	1	9	80	Y	External	Y	Y	VSOP10	Plastic
WDD5069-2	LM5069-2	1	9	80	Y	External	Y	Y	VSOP10	Plastic

Table 11- Ideal Diode & ORing Controller

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Fault Indicator	NMOS	Turn-off Time (μs)	Package	
			Min.	Max.				Type	Category
WDD4355	LTC4355	2	6	80	Y	External	≤0.5	DFN4x3-14	Plastic
WDD4357	LTC4357	1	6	80	N	External	≤0.5	TSOT23-6	Plastic

Table 12 - Voltage, Current, Temperature Monitor

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Bits (bits)	Interface	Package	
			Min.	Max.			Type	Category
WDD2991M	LTC2991	8	2.9	5.5	14	I2C	MSOP-16	Plastic

Table 13 - Load Switch

Part Number	Compliable to	Number of Outputs	Input Voltage (V)		Output Current (A)	NMOS	UVP	Package	
			Min.	Max.				Type	Category
WDD22975	TPS22975	1	0.8	5.5	6	Built-in	Y	DFN2x2-8	Plastic