

DDR REGULATOR BOM FOR A 4-A CONTINUOUS, 6-A PEAK V_{DDQ} APPLICATION

Description	Qty.	Ref.	Vendor	Part number
Capacitor 68 μ F, tantalum, 25 V, ESR 150 m Ω	1	C1	AVX	TPSV686*025#0150
Capacitor 10 nF, ceramic	2	C2, C3	Any	
Capacitor 68 μ F, tantalum, 6 V, ESR 1.8 Ω	1	C4	AVX	TAJB686*006
Capacitor 150 nF, ceramic	2	C5, C7	Any	
Capacitor 180 μ F, specialty polymer, 4 V, ESR 15 m Ω	2	C6a, C6b	Panasonic	EEFUE0G181R
Capacitor 1000 μ F, specialty polymer, 4 V, ESR 10 m Ω	1	C8	Kemet	T510E108(1)004AS4115
Capacitor 0.1 μ F, ceramic	1	C9	Any	
Resistor 1.82 k Ω , 1%	3	R1, R2, R6	Any	
Resistor 56.2 k Ω , 1%	1	R3	Any	
Resistor 10 k Ω , 5%	1	R4	Any	
Resistor 3.24 k Ω , 1%	1	R5	Any	
Resistor 1.5 k Ω , 1%	2	R7, R8	Any	
Schottky diode, 30 V	2	D1, D2	Fairchild	BAT54
Inductor 6.4 μ H, 6 A, 8.64 m Ω	1	L1	Panasonic	ETQ-P6F6R4HFA
Inductor 0.8 μ H, 6 A, 2.24 m Ω	1	L2	Panasonic	ETQ-P6F0R8LFA
Dual MOSFET with Schottky	2	Q1, Q2	Fairchild	FDS6986S
DDR controller	1	U1	Fairchild	FAN5236