



# L6727 8-PIN UNIVERSAL EVAL. BOARD Rev. 0

## PART LIST

Reference	Value	Type / Vendor	Description
<b>CAPACITORS</b>			
C14	1 $\mu$ F – X7R/16V	SMD0805	VCC Filter
C10	100nF – X7R/16V	SMD0603	Bootstrap Capacitor
C11, C12, C13	4.7 $\mu$ F – X7R/16V	SMD1206	Vin HF Filter
C24	10nF	SMD0603	Compensation Network
C35	33pF		
C36	NC		
C37	NC	SMD0603	Passive Droop Capacitor
C18, C25	2200 $\mu$ F/11m $\Omega$ /6.3V/2.92Arms	Radial 10x20 Nippon Chemi-Con - KZJ	Output Bulk Filter
C15, C16, C17, C19, C20, C22, C26, C27, C28, C30, C31, C32, C33	NC		
C21, C29, C34	NC	SMD1206	HF Output Decoupling Caps
C1, C2	1800 $\mu$ F/9m $\Omega$ /16V/3.23Arms	Radial 10x25 Nippon Chemi-Con - KZJ	Input Bulk Filter
C3, C4, C5, C6, C7, C8, C9	NC		
C38	1 $\mu$ F – X7R/16V	SMD0805	Bootstrap Filter
C23	6.8nF	SMD0603	Snubber Capacitor
<b>RESISTORS</b>			
R1	3.3	SMD0603	VCC filter
R2	3.3	SMD0603	Boot Resistor
R3	2.2	SMD0805	HS Gate resistor
R5	0	SMD0805	LS Gate resistor
R15	NC		
R4	1.8	SMD0805	Snubber resistor
R16	0	SMD0805	VIN to VCC jumper
R6	12k_1%	SMD0603	L6727 OCSET Resistor
R7	33k_1%	SMD0603	Compensation Network
R8	0		
R9	2.2k_1%		
R12	NC		
R14	NC		
R10	NC	SMD0603	Passive Droop Resistors
R11	0		
R13	3.9k_1%	SMD0603	Output Offset Resistor
R17	2.2	SMD0603	PHASE resistor
R18	NC	SMD0603	L6726A OCSET Resistor
<b>INDUCTOR</b>			
L1	1.25 $\mu$ H/1.5m $\Omega$	T60-18 6 Turns 2 x AWG 18 Micrometals	Output Inductor
<b>MOSFETS AND DIODES</b>			
Q4	STD55NH2LL	DPAK STMicroelectronics	HS MOSFET
Q1	NC	SO8	
Q5	STD90NH2LL	DPAK STMicroelectronics	LS MOSFETs
Q6	NC		
Q2,Q3	NC	SO8	
D1	1N4148	SOT23	Bootstrap Diode
<b>CONTROLLER</b>			
U1	L6727	SO8 STMicroelectronics	Controller
<b>MISCELLANEOUS</b>			
UGATE, PHASE, LGATE, GND, VCC, FB, COMP	Test Point		Test Points
VIN, GNDIN	Horizontal FASTON		Input Connectors
VOUT, GNDOUT	Horizontal FASTON		Output Connectors