

**STEVAL-ISA126V1 Bill of Material**

Reference	Part	Description	Manufacturer
BR1	DF06M	600v 1A diodes bridge	VISHAY
C1, C13		100nF X2 capacitor	EVOX RIFA
C3		47uF 450V electrolytic capacitor	PANASONIC
C4		22uF 35V electrolytic capacitor	PANASONIC
C5, C9		Not Mounted	
C6		3.3nF 25V ceramic capacitor	EPCOS
C7		33nF 50V ceramic capacitor	EPCOS
C8		2.2nF Y1 capacitor	CERAMITE
C14, C15	MCZ serie	1000uF 16V ultra low ESR electr. cap.	RUBYCON
C10		100uF 10V electrolytic capacitor	PANASONIC
C11		4.7nF 100V ceramic capacitor	EPCOS
C12		2.2uF 50V electrolytic capacitor	PANASONIC
C16		2.2nF 100V ceramic capacitor	AVX
<b>D1</b>	<b>BAT46</b>	<b>Diode</b>	<b>ST</b>
D2	1N4148	Small signal high speed diode	NXP
<b>D3</b>	<b>STTH1L06</b>	<b>Ultra-fast high voltage diode</b>	<b>ST</b>
<b>D4</b>	<b>STPS5L40</b>	<b>5A - 40V Power Schottky rectifier</b>	<b>ST</b>
<b>D5</b>	<b>1.5KE300</b>	<b>Transil</b>	<b>ST</b>
Dz	BZX79-C18	18V Zener Diode	NXP
F1	TR5 250V 500mA	Fuse	SCHURTER
L1	RFB0807-2R2L	2.2uH	COILCRAFT
NTC1		2.2 Ohm thermistor	EPCOS
OPTO1	PC817D	Opto coupler	SHARP
R1		4.7Ω 1/4W axial resistor	
R3		68kΩ 1/4W axial resistor	
R6		15kΩ 1/4W axial resistor	
R8		82k 1/4W axial resistor 1% tolerance	
R9		27k 1/4W axial resistor 1% tolerance	
R10		560kΩ 1/4W axial resistor	
R12		10kΩ 1/4W axial resistor	
R13		3.3kΩ 1/4W axial resistor	
R14		330kΩ 1/4W axial resistor	
R15		2MΩ 1/4W axial resistor	
Rz		68Ω 1/4W axial resistor	
T2	BU16-4530R5BL	Common Mode Choke	COILCRAFT
<b>VR1</b>	<b>TS431</b>	<b>Voltage reference</b>	<b>ST</b>
<b>U1</b>	<b>VIPer28HN</b>	<b>Offline high voltage controller</b>	<b>ST</b>
T1	1338.0020	Switch mode power Transformer	MAGNETICA