

full-bridge

Example Bill of Materials for Full Bridge

You need to verify component values are compatible with your application!

C1	2.2 uF MKP (polypropylene) DC Link capacitor (e.g. TDK B32673P6225K)
C2	2.2 uF MKP (polypropylene) DC Link capacitor (e.g. TDK B32673P6225K)
	Installing both C1 and C2 is highly recommended!
D1	1N5819
D2	1N5819
D3	1N5819
D4	1N5819
D5	1N5819
D6	1N5819
D7	1N5819
D8	1N5819
J7	2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J8	2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J9	2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J10	2 position 5.0/5.04 mm spacing screw terminal block PCB mount
Q1	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q2	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q3	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q4	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q5	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q6	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q7	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
Q8	TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
R1	5R to 10R ½ watt metal film gate resistor
R2	5R to 10R ½ watt metal film gate resistor
R3	5R to 10R ½ watt metal film gate resistor
R4	5R to 10R ½ watt metal film gate resistor
R5	5R to 10R ½ watt metal film gate resistor
R6	5R to 10R ½ watt metal film gate resistor
R7	5R to 10R ½ watt metal film gate resistor
R8	5R to 10R ½ watt metal film gate resistor
	Gate resistors on all IGBTs must be the same resistance!
TVS1	Vishay 1.5KE30CA-E3/51
TVS2	Vishay 1.5KE30CA-E3/51
TVS3	Littelfuse 1.5KE400C-B 400 V bidirectional TVS
TVS4	Littelfuse 1.5KE400C-B 400 V bidirectional TVS
TVS5	Vishay 1.5KE30CA-E3/51
TVS6	Vishay 1.5KE30CA-E3/51
TVS7	Littelfuse 1.5KE400C-B 400 V bidirectional TVS
TVS8	Littelfuse 1.5KE400C-B 400 V bidirectional TVS