PRELIMINARY TECHNICAL INFORMATION

Adaptation board for SCi*Core*Drive22 for econodual IGBT modules

DEFAULT VALUES (board configuration)
-Half Bridge mode (Direct Mode optional)
-4μS dead time between channels generated
-Gate resistor depending on the IGBT module used
-0-5V input PWM logic levels (0-15V optional)
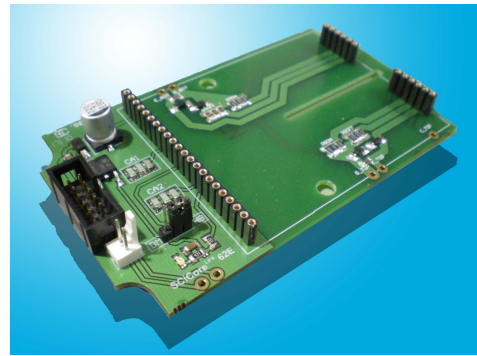-0-5V logic fault output
 (low level-open collector output optional)

Foto no contractual / Photo non-contractual

SCi*Core*Link62E is a printed circuit board specially designed for the driver module SCi*Core*Drive22. For more accuracy information about the working of the entire driver board, consult the datasheet of the SCi*Core*Drive22. Gate resistors are not included (by default). Configuration other than the default one is available by order, in that case, please contact with us.

ELECTRICAL CHARACTERISTICS

Description	symbol	notes/test conditions	Min	Typ	Max	Units
Supply voltage	V_{CC}		14	15	16	V
PWM High state Input voltage	V_{PWM_H}	JP1&JP2 connected [1]	3,5		5	V
PWM Low state Input voltage	V_{PWM_L}		0		1,5	V
PWM High state Input voltage	V_{PWM_H}	JP1&JP2 unconnected [1]	11		15	V
PWM Low state Input voltage	V_{PWM_L}		0		4	V
Reset High state Input Voltage	V_{RESET_H}		2		5	V
Reset Low state Input Voltage	V_{RESET_L}		0		0,8	V
Fault open collector current	I_{FAULT}	working as open collector			8	mA
Fault High state Output Voltage	V_{FAULT_H}	working in logic level			5	V
Fault Low state Output Voltage	V_{FAULT_L}	**indicates fault condition** open collector or logic level	0		0,4	V

*Note: JP1 and JP2 jumpers are located in the SCi*Core*Drive22, not in SCi*Core*Link62E*

CON 1	designation	function
1	PWM$_{TOP}$	Input logic signal for switching TOP IGBT
2	GND	Ground terminal for supply and logic signals
3	GND	Ground terminal for supply and logic signals
4	RESET	reset input signal (low state
5	GND	Ground terminal for supply and logic signals
6	VCC	+15VDC for supply voltage
7	FAULT	fault output signal
8	VCC	+15VDC for supply voltage
9	VCC	+15VDC for supply voltage
10	PWM$_{BOT}$	Input logic signal for switching BOT IGBT

CON 2	designation	function
1	NTC1	Terminal 1 for internal module NTC
2	NTC2	Terminal 2 for internal module NTC

JUMPERS		
JP1	both connected: 5V logic level	
JP2	both unconnected: 15V logic level	
JP3	right connected: half bridge mode	
	left connected: direct mode	

conector CON1:
type TYCO 1-1634688-0

conector CON2:
type MOLEX 22-27-2021
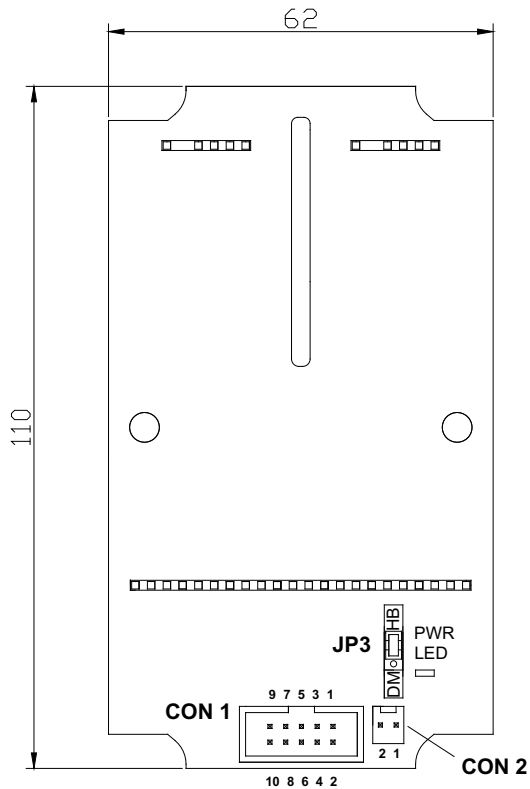
All dimensions are in mm
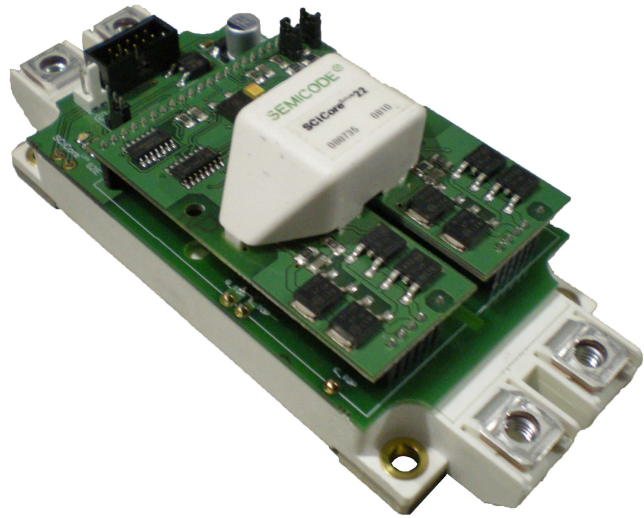
assembly example

Cost Effective Products

SEMICODE ELECTRONICA

offers to the market a comprehensive range of products from recognized manufacturers at the best price/ quality relationship, this products are provided with a basic reference code that allows maintaining the same product reference even if the original device manufacturer is replaced. SEMICODE product reference has to be considered as a generic brand.

Seeking the market needs and trends, we are constantly increasing the product portfolio with new products and suppliers, please ask for the updated information available to our local contacts.

SEMICODE products include semiconductors, passive components and accessories focused in power electronics market.

Datasheet Annotations:

SEMICODE ELECTRONICA annotate datasheets in the top left hard corner of the front page, to indicate product status. The annotations are as follows:
Tentative information: This is the most tentative form of information and represents a very preliminary specification. No actual design work on the product has been started.
Preliminary Information: The product is in design and development. The datasheet represents the product as it is understood but details may change.
Advance Information: The product design is complete and final characterisation for volume production is well in hand.
No Annotation: The product parameters are fixed and the product is available to datasheet specification.

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Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.

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