

DF-IG1

Single IGBT Module Driver Interface Card

FEATURES

- Accomodates HV2-15A, HV2-15I, HVx-30A and HVx-30I Floeth Electronic IGBT Driver Modules
- Available as Board Only or as Complete Assembly with Driver Module
- Suitable for Standard IGBT Modules at 1200V and 1700V
- HP Fibre Optic Link Interface Connections
- Single supply voltage (0V, +15V)
- Isolated Failure Feedback
- High dv/dt Immunity of 100kV/μs
- Short Circuit and Overcurrent Protection of IGBT
- Undervoltage Lockout
- +15V and -15V Gate Voltages
- Duty Cycle 0 to 100%

APPLICATIONS

- Industrial Drives
- Railway Traction Drives and Auxiliaries
- Power Supplies
- Wind Turbines

This datasheet features an IGBT interface card designed and manufactured by Floeth Electronic. The DF-IG1 is designed for use with 140x130mm single switch standard IGBT modules. The interface card accepts the IGBT driver module (HV2-15A, HV2-15I, HVx-30A and HVx-30I series) designed and manufactured by Floeth Electronic. The HV2-15x and HVx-30x series are compact single channel intelligent gate drive modules. More information is given in publication AN5609 - HVx-30A/HVx-30I Floeth Electronic IGBT Driver Module and AN5706 - HV2-15A Floeth Electronic IGBT Driver Module.

ORDERING INFORMATION

Order As:

Interface Card only:-

DF-IG1

Driver Module/Interface Card assembly:-

HV2-15I / DF-IG1 or HV2-15A / DF-IG1
- 2300V AC rms partial discharge free

HV2-30I / DF-IG1 or HV2-30A / DF-IG1
- 2300V AC rms partial discharge free

HV3-30I / DF-IG1 or HV3-30A / DF-IG1
- 3000V AC rms partial discharge free

HV4-30I / DF-IG1 or HV4-30A / DF-IG1
- 4000V AC rms partial discharge free

HV5-30I / DF-IG1 or HV5-30A / DF-IG1
- 5000V AC rms partial discharge free

Note: When ordering, please use the complete part number.

JUMPER SETTINGS

Pin No.	Description	Note
Standard operation mode / single switch application		
J2	Connected - Pulls Pin 33 to COM Not connected	Gate driver Output in antiphase with Input. No input signal (LOW), gate pulled LOW (-15V). Gate driver Output in phase with Input. Output signal is HIGH (+15V).
J3	Connected - Pulls Pin 34 to COM	Driver is disabled during a fault condition - fault reported on SO.
J4	DO NOT CONNECT!	Short circuit will result between +15V and COM if connected
Multiple switch - series or parallel operation		
J2	Connected - Pulls Pin 33 to COM Not connected	Gate driver Output in antiphase with Input. No input signal (LOW), gate pulled LOW (-15V). Gate driver Output in phase with Input. Output signal is HIGH (+15V).
J3	DO NOT CONNECT!	Short circuit will result between +15V and COM if connected
J4	Connected - Will set Pin 34 to high (+15V)	Driver continues to function during a fault condition - fault is reported on SO.

OUTLINE DETAILS

This information is given for reference purposes only and should **not** be scaled. All dimensions in mm, unless stated otherwise.

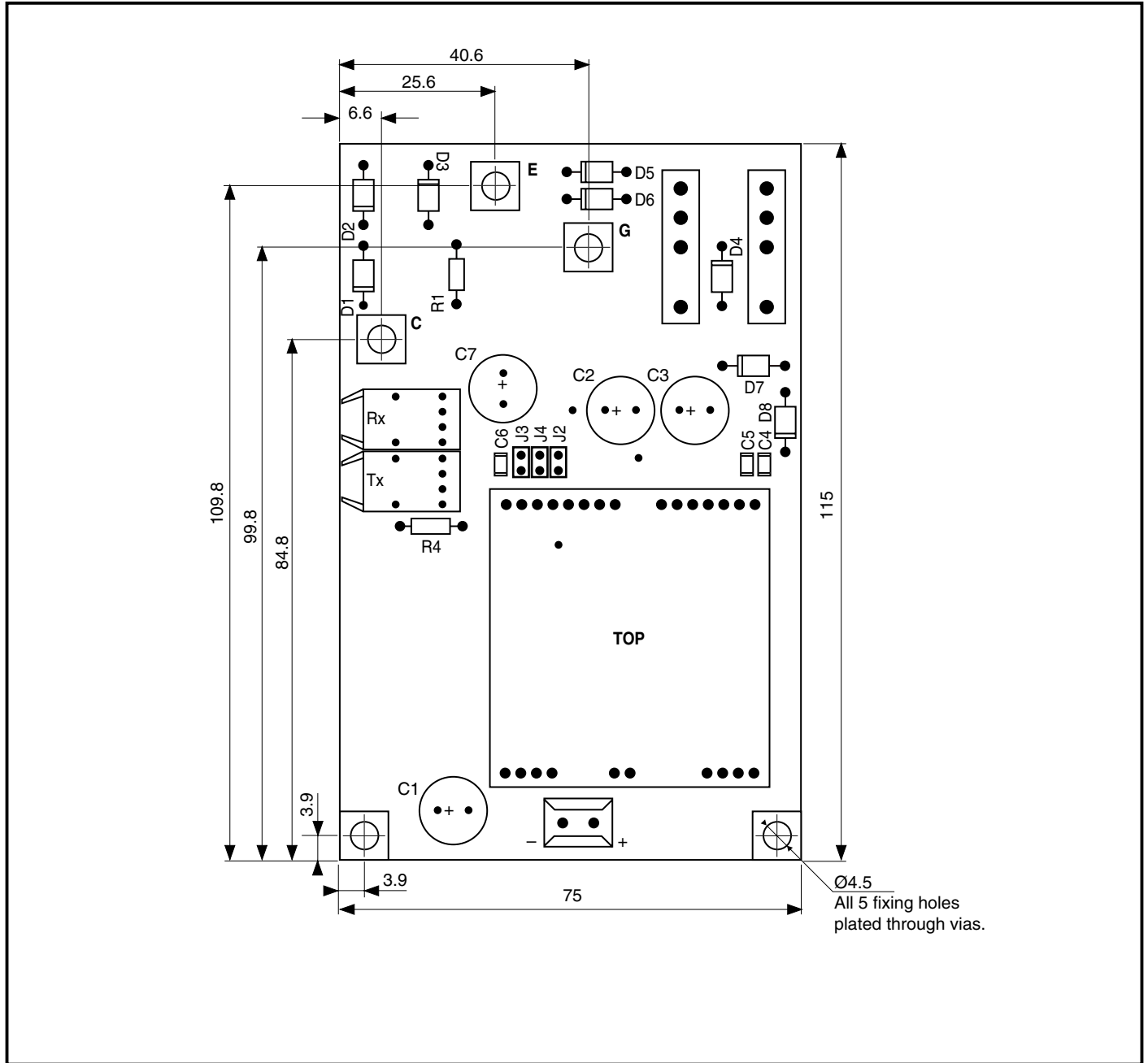


Fig. 1 Outline details