

G.Fast

CO and DPU Side Protection

Solution Products



TISP4G024L1W



2026-42-C2LF



SM51430L

Design Kit



PN-DESIGNKIT-58

Objective

G.Fast provides fast data transmission over a twisted pair of copper wire. This solution protects CO and DPU side ports against surge and power contact.

Solution

- 1 Thyristor Surge Protector (TISP):
TISP4G024L1W
- 1 Gas Discharge Tube (GDT) Surge Arrestor:
2026-42-C2LF
- 1 Transformer:
SM51430L

Compliance*

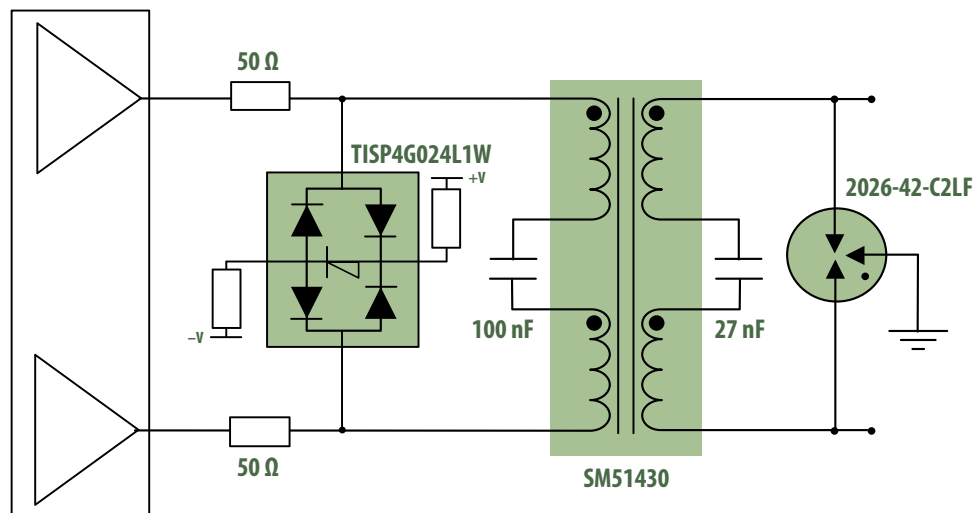
ITU-T K.20 and K.45 Enhanced

Alternate Recommendations

Various G.Fast protection solutions are available depending on specific design constraints; contact your local Bourns technical representative for more information.

Benefit

This solution provides protection on the driver side without impairing the G.Fast signal.



*The Bourns® model TISP4G024L1W Thyristor Surge Protector and model 2026-42-C2LF Gas Discharge Tube and model SM51430L in conjunction help to ensure an application's compliance to ITU-T K.20 and K.45 Enhanced. These components can withstand 10/700 μ s surges as described in ITU-T K.20 Basic and K.45 Enhanced recommendation.

The schematic above illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.