

# PORTNOTE® SOLUTIONS

# **G.Fast CO and DPU Side Protection**

### **Solution Products**



TISP4G024L1W



2026-42-C2LF



SM51430EL

# **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

50 Ω

1 Transformer:

SM51430EL

## **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.

2026-42-C2LF



\*The Bourns\* model TISP4G024L1W Thyristor Surge Protector and model 2026-42-C2LF Gas Discharge Tube and model SM51430EL in conjunction help to ensure an application's compliance to ITU-T K.20 and K.45 Enhanced. These components can withstand 10/700 µs surges as described in ITU-T K.20 Basic and K.45 Enhanced recommendation.

100 nF

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.

TISP4G024L1W

# **Design Kit**



PN-DESIGNKIT-58

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50 Ω

**Asia-Pacific:** *Tel* +886-2 256 241 17 Fax +886-2 256 241 16 Bourns\* PortNote\* solutions provide protection recommendations for typical port threats.

27 nF

For more information, go to:

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SM51430EL

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