

## DLC-48D2



- ✦ High speed data transmission
- ✦ Common mode and differential mode protection
- ✦ Data lines, including those isolated from Earth
- ✦ Compact DIN rail enclosure, high density protection
- ✦ Protection of shield wire
- ✦ Location and test categories: D1, C2, C3
- ✦ IEC 61643-21 compliance



	<b>Electrical Characteristics</b>																																								
<p>G: 3-electrode gas tube R: Resistor D: Clamping diode</p>	<table border="1"> <tr> <td>Network</td> <td></td> <td>Floating applications, E.g: 4-20mA or 48 V line</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>48 Vdc</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>Uc</td> <td>53 Vdc</td> </tr> <tr> <td>Max. frequency, in the channel</td> <td>f max.</td> <td>DC to 50 MHz</td> </tr> <tr> <td>Cut-off frequency -3dB, 100 ohm system</td> <td>f max.</td> <td>DC to 150 MHz</td> </tr> <tr> <td>Insertion loss</td> <td></td> <td>&lt; 1 dB</td> </tr> <tr> <td>Max. load current @25°C</td> <td>IL</td> <td>750 mA</td> </tr> <tr> <td>Protection Level C3 (10/1000µs), 300 applications@10 A, X-X (Line/Line)</td> <td>Up</td> <td>80 V</td> </tr> <tr> <td>Protection level C3 (10/1000µs), 300 applications@10 A, X-C (Line/Earth)</td> <td>Up</td> <td>650 V</td> </tr> <tr> <td>Impulse current D1 (10/350µs), 2 applications, X-C (Line/Earth)</td> <td>Iimp</td> <td>2.0 kA</td> </tr> <tr> <td>Nominal Discharge Current C2 (8/20µs), 10 applications, X-X (Line/Line)</td> <td>In</td> <td>10 kA</td> </tr> <tr> <td>Nominal discharge current C2 (8/20µs), 10 applications X-C (Line/Earth)</td> <td>In</td> <td>10 kA</td> </tr> <tr> <td>Line resistance (± 10%)</td> <td></td> <td>1.2 Ohm</td> </tr> </table>		Network		Floating applications, E.g: 4-20mA or 48 V line	Nominal line voltage	Un	48 Vdc	Max. DC operating voltage	Uc	53 Vdc	Max. frequency, in the channel	f max.	DC to 50 MHz	Cut-off frequency -3dB, 100 ohm system	f max.	DC to 150 MHz	Insertion loss		< 1 dB	Max. load current @25°C	IL	750 mA	Protection Level C3 (10/1000µs), 300 applications@10 A, X-X (Line/Line)	Up	80 V	Protection level C3 (10/1000µs), 300 applications@10 A, X-C (Line/Earth)	Up	650 V	Impulse current D1 (10/350µs), 2 applications, X-C (Line/Earth)	Iimp	2.0 kA	Nominal Discharge Current C2 (8/20µs), 10 applications, X-X (Line/Line)	In	10 kA	Nominal discharge current C2 (8/20µs), 10 applications X-C (Line/Earth)	In	10 kA	Line resistance (± 10%)		1.2 Ohm
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