



- Hybrid SAD-GDT Technology
- UL497B LISTED
- 20kA I<sub>max</sub> (1x-8/20us)
- 5kA I<sub>mp</sub> (2x-10/350us)
- 5kA I<sub>n</sub> (10x-8/20us)
- Modular
- 2W+SHIELD+G



	<table border="1"> <thead> <tr> <th colspan="3">Electrical Characteristics</th> </tr> </thead> <tbody> <tr> <td>Max. DC operating voltage</td> <td>U<sub>c</sub></td> <td>15 Vdc</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>300 mA</td> </tr> <tr> <td>Impulse current 2 x 10/350µs Test - D1 Category</td> <td>I<sub>imp</sub></td> <td>5 kA</td> </tr> <tr> <td>Nominal discharge current C2 Category</td> <td>I<sub>n</sub></td> <td>5 kA</td> </tr> <tr> <td>DATA SPD TYPE</td> <td></td> <td>UL497B LISTED</td> </tr> <tr> <td>VOLTS</td> <td>(V)</td> <td>12</td> </tr> <tr> <td>WIRES</td> <td></td> <td>2W+Shield+G</td> </tr> <tr> <td>LINE CURRENT MAX</td> <td>(A)</td> <td>0.3</td> </tr> <tr> <td>AMBIENT MIN</td> <td>(C)</td> <td>-40</td> </tr> <tr> <td>AMBIENT MAX</td> <td>(C)</td> <td>+85</td> </tr> <tr> <td>RESIDUAL VOLTAGE</td> <td>(V)</td> <td>30</td> </tr> <tr> <td>MCOV</td> <td>(V)</td> <td>15</td> </tr> <tr> <td>IN</td> <td>(kA)</td> <td>5</td> </tr> <tr> <td>10 impulses 8/20µs</td> <td></td> <td></td> </tr> <tr> <td>IMAX 8/20µs</td> <td>(kA)</td> <td>20</td> </tr> <tr> <td>I<sub>imp</sub> 10/350µs</td> <td>(kA)</td> <td>5</td> </tr> <tr> <td>DATA SPEED</td> <td>(Mbps)</td> <td>10/100</td> </tr> <tr> <td>FREQUENCY</td> <td>(MHz)</td> <td>up to 10</td> </tr> <tr> <td>INSERTION LOSS (@ FREQ)</td> <td>(db)</td> <td>&lt; 1</td> </tr> <tr> <td>CAPACITANCE</td> <td>(pF)</td> <td>&lt; 50</td> </tr> </tbody> </table>	Electrical Characteristics			Max. DC operating voltage	U <sub>c</sub>	15 Vdc	Insertion loss		< 1 dB	Max. load current @25°C	IL	300 mA	Impulse current 2 x 10/350µs Test - D1 Category	I <sub>imp</sub>	5 kA	Nominal discharge current C2 Category	I <sub>n</sub>	5 kA	DATA SPD TYPE		UL497B LISTED	VOLTS	(V)	12	WIRES		2W+Shield+G	LINE CURRENT MAX	(A)	0.3	AMBIENT MIN	(C)	-40	AMBIENT MAX	(C)	+85	RESIDUAL VOLTAGE	(V)	30	MCOV	(V)	15	IN	(kA)	5	10 impulses 8/20µs			IMAX 8/20µs	(kA)	20	I <sub>imp</sub> 10/350µs	(kA)	5	DATA SPEED	(Mbps)	10/100	FREQUENCY	(MHz)	up to 10	INSERTION LOSS (@ FREQ)	(db)	< 1	CAPACITANCE	(pF)	< 50
Electrical Characteristics																																																																			
Max. DC operating voltage	U <sub>c</sub>	15 Vdc																																																																	
Insertion loss		< 1 dB																																																																	
Max. load current @25°C	IL	300 mA																																																																	
Impulse current 2 x 10/350µs Test - D1 Category	I <sub>imp</sub>	5 kA																																																																	
Nominal discharge current C2 Category	I <sub>n</sub>	5 kA																																																																	
DATA SPD TYPE		UL497B LISTED																																																																	
VOLTS	(V)	12																																																																	
WIRES		2W+Shield+G																																																																	
LINE CURRENT MAX	(A)	0.3																																																																	
AMBIENT MIN	(C)	-40																																																																	
AMBIENT MAX	(C)	+85																																																																	
RESIDUAL VOLTAGE	(V)	30																																																																	
MCOV	(V)	15																																																																	
IN	(kA)	5																																																																	
10 impulses 8/20µs																																																																			
IMAX 8/20µs	(kA)	20																																																																	
I <sub>imp</sub> 10/350µs	(kA)	5																																																																	
DATA SPEED	(Mbps)	10/100																																																																	
FREQUENCY	(MHz)	up to 10																																																																	
INSERTION LOSS (@ FREQ)	(db)	< 1																																																																	
CAPACITANCE	(pF)	< 50																																																																	
<p>G: 3-electrode gas tube Gb: 2-electrode gas tube R: Resistor D: Clamping diode</p>	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Characteristics</th> </tr> </thead> <tbody> <tr> <td>Connection to Network</td> <td>By screw terminal: cross section 0.5-2.5mm<sup>2</sup></td> </tr> <tr> <td>TECHNOLOGY</td> <td>SAD-GDT</td> </tr> <tr> <td>NETWORK CONFIGURATION</td> <td>1 Channel (2W+SHIELD+G)</td> </tr> <tr> <td>CONNECTION METHOD</td> <td>Screw terminal</td> </tr> <tr> <td>MOUNTING</td> <td>Din rail</td> </tr> <tr> <td>MATERIAL</td> <td>Thermoplastic UL94-V0</td> </tr> <tr> <td>NEMA RATING (IP RATING)</td> <td>NEMA 2 (IP20)</td> </tr> <tr> <td>DIMENSIONS</td> <td>See diagram</td> </tr> <tr> <td>WEIGHT</td> <td>0.30 lbs</td> </tr> <tr> <td>SPARE PART</td> <td>DLAM-12D3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Standards</th> </tr> </thead> <tbody> <tr> <td>Certification</td> <td>UL Listed</td> </tr> <tr> <td>UL STANDARD</td> <td>UL497B</td> </tr> <tr> <td>UL CATEGORY</td> <td>QVGG</td> </tr> <tr> <td>UL FILE NUMBER</td> <td>E184939</td> </tr> <tr> <td>STANDARDS</td> <td>IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993</td> </tr> <tr> <td>ENVIRONMENTAL STANDARDS</td> <td>ROHS</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Part number</th> </tr> </thead> <tbody> <tr> <td>Part number</td> <td>6402011</td> </tr> </tbody> </table>	Mechanical Characteristics		Connection to Network	By screw terminal: cross section 0.5-2.5mm <sup>2</sup>	TECHNOLOGY	SAD-GDT	NETWORK CONFIGURATION	1 Channel (2W+SHIELD+G)	CONNECTION METHOD	Screw terminal	MOUNTING	Din rail	MATERIAL	Thermoplastic UL94-V0	NEMA RATING (IP RATING)	NEMA 2 (IP20)	DIMENSIONS	See diagram	WEIGHT	0.30 lbs	SPARE PART	DLAM-12D3	Standards		Certification	UL Listed	UL STANDARD	UL497B	UL CATEGORY	QVGG	UL FILE NUMBER	E184939	STANDARDS	IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993	ENVIRONMENTAL STANDARDS	ROHS	Part number		Part number	6402011																										
Mechanical Characteristics																																																																			
Connection to Network	By screw terminal: cross section 0.5-2.5mm <sup>2</sup>																																																																		
TECHNOLOGY	SAD-GDT																																																																		
NETWORK CONFIGURATION	1 Channel (2W+SHIELD+G)																																																																		
CONNECTION METHOD	Screw terminal																																																																		
MOUNTING	Din rail																																																																		
MATERIAL	Thermoplastic UL94-V0																																																																		
NEMA RATING (IP RATING)	NEMA 2 (IP20)																																																																		
DIMENSIONS	See diagram																																																																		
WEIGHT	0.30 lbs																																																																		
SPARE PART	DLAM-12D3																																																																		
Standards																																																																			
Certification	UL Listed																																																																		
UL STANDARD	UL497B																																																																		
UL CATEGORY	QVGG																																																																		
UL FILE NUMBER	E184939																																																																		
STANDARDS	IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993																																																																		
ENVIRONMENTAL STANDARDS	ROHS																																																																		
Part number																																																																			
Part number	6402011																																																																		

