

Gas Discharge Tube (GDT) Data Sheet

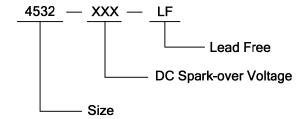
Features

- High insulation resistance.
- Low capacitance (≤0.5pF).
- 2000A 8/20µs maximum surge current capacity in accordance with IEC61000-4-5.
- 4KV 10/700µs maximum surge rating in accordance with ITU-TK.21
- Surface mounted gas arrester
- Micro-Gap Design
- Size 4532(1812)
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: E244458

Applications

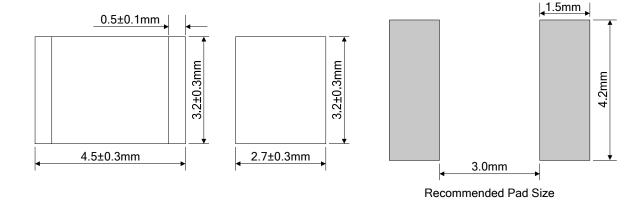
- Repeaters, Modems.
- Telephone Interface, Line cards.
- Data communication equipment.
- Line test equipment

Part Number Code and Marking



090: Device Marking Code

Dimensions





Flectrical Characteristics

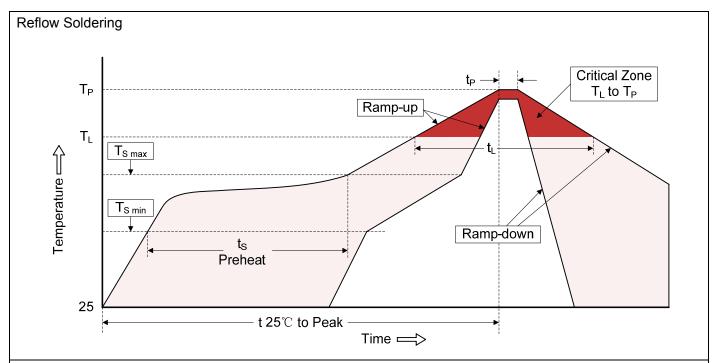
Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Impulse Life Test	Minimum Insulation Resistance		Maximum Capacitance	Nominal Impulse Discharge Current	Impulse Withstanding	Device Marking
	100V/s	1KV/μs	8/20µs 100A	Test Voltage	(GΩ)	(1MHz 1V)	8/20µs	Voltage Capacity	Code
	(V)	(V)	(Times)	DC(V)	, ,	(pF)	(A)		
4532-075-LF	55~95	600	300	25	1	0.5	2000		075
4532-091-LF	63~117	700	300	50	1	0.5	2000		090
4532-121-LF	84~156	700	300	50	1	0.5	2000		120
4532-151-LF	105~195	700	300	50	1	0.5	2000		150
4532-201-LF	140~260	750	300	100	1	0.5	2000		200
4532-231-LF	161~299	750	300	100	1	0.5	2000	10/700µs	230
4532-301-LF	210~390	900	300	100	1	0.5	2000	4kV	300
4532-351-LF	245~455	900	300	100	1	0.5	2000	±5 Times	350
4532-401-LF	280~520	1000	300	100	1	0.5	2000		400
4532-421-LF	294~546	1000	300	100	1	0.5	2000		420
4532-471-LF	329~611	1000	300	100	1	0.5	2000		470
4532-501-LF	350~650	1100	300	100	1	0.5	2000		500
4532-601-LF	420~780	1200	300	100	1	0.5	2000		600

Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.		
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.		
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.		
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz		
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC spark-over voltage to change more than 25% from its initial value.	value	
Impulse Withstanding Voltage	The maximum 10/700µs surge that can be applied to the Gas Tube, 5 positive and 5 negative surges, with 1 minute interval time, without causing the DC spark-over voltage to change more than 25% from its initial value.		



Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly		
Average ramp-up rate (T _L to T _P)	3°C/second max.		
Preheat -Temperature Min (T _{S min}) -Temperature Max (T _{S max}) -Time (min to max) (ts)	150℃ 200℃ 60-180 seconds		
T _{S max} to T _L -Ramp-up Rate	3℃/second max.		
Time maintained above: -Temperature (T_L) -Time (t_L)	217℃ 60-150 seconds		
Peak Temperature (T _P)	260℃		
Time within 5℃ of actual Peak Temperature (t _P)	20-40 seconds		
Ramp-down Rate	6°C/second max.		
Time 25℃ to Peak Temperature	8 minutes max.		



Packaging

Таре	ltomo	Dimension (mm)	
	Items	Spec.	Tolerance
	W	12.00	±0.20
	P0	4.00	±0.10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	P1	8.00	±0.20
	P2	2.00	±0.10
	D0	1.45	±0.10
$D1$ A A B \rightarrow	D1	1.00	±0.10
SECTION B-B	E	1.75	±0.10
SECTION A-A	F	5.50	±0.10
	A0	3.80	±0.10
	K0	3.20	±0.10
	В0	4.90	±0.10
	t0	0.40	±0.10
Reel	D	330.00	±1.00
D	d	13.00	±0.50
	L	16.00	±0.50
	t	2.00	±0.20
	Quantity: 2500pcs		