

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

4532 series

RoHS compliant & free





GAS DISCHARGE TUBS

Gas Discharge Tube (GDT) Data Sheet

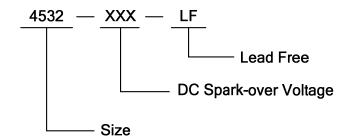
Features

- High insulation resistance
- Low capacitance (≤0.5pF)
- 2KA 8/20µs maximum surge current capacity in accordance with IEC 61000-4-5& IEC 61643-311
- 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 ~ +90°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL & TUV

Applications

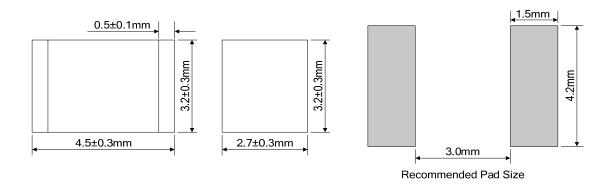
- Repeaters, Modems
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

Part Number Code and Marking



090: Device Marking Code

Dimensions



4532 series

Electrical Characteristics

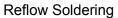
Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Minimum Insulation Resistance		Maximum Capacitance	Device Marking
	100V/s	1000V/µs	8/20µs 10times	10/700µs 10times	Test Voltage	(GΩ)	(1MHz 1V)	Code
	(V)	(V)	(KA)	(KV)	DC(V)	(011)	(pF)	
4532-075-LF	75±30%	600	2	4	50	1	0.5	075
4532-091-LF	90±30%	700	2	4	50	1	0.5	090
4532-121-LF	120±30%	700	2	4	50	1	0.5	120
4532-151-LF	150±30%	700	2	4	50	1	0.5	150
4532-201-LF	200±30%	750	2	4	100	1	0.5	200
4532-231-LF	230±30%	750	2	4	100	1	0.5	230
4532-301-LF	300±30%	900	2	4	100	1	0.5	300
4532-351-LF	350±30%	900	2	4	100	1	0.5	350
4532-401-LF	400±30%	1000	2	4	100	1	0.5	400
4532-421-LF	420±30%	1000	2	4	100	1	0.5	420
4532-471-LF	470±30%	1000	2	4	100	1	0.5	470
4532-501-LF	500±30%	1100	2	4	100	1	0.5	500
4532-601-LF	600±30%	1200	1	4	100	1	0.5	600
4532-801-LF	800±30%	1600	1	4	100	1	0.5	800
4532-1000-LF	1000±20%	2400	1	4	100	1	0.5	102
4532-1200-LF	1200±20%	2600	1	4	100	1	0.5	122
4532-1500-LF	1500±20%	2800	1	4	100	1	0.5	152

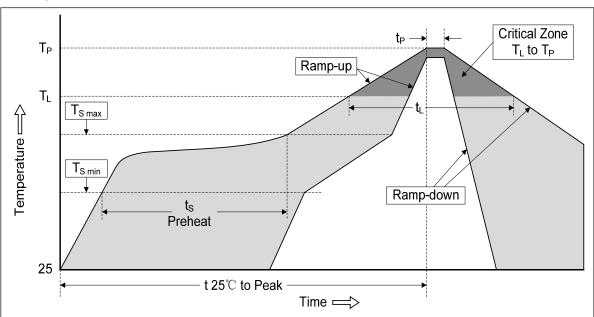
Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	. I ne 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 $dv/dt=1000V/\mu s$.		
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	To meet	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	the specified value	
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.		
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.		

GAS DISCHARGE TUBS

Recommended Soldering 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})	150℃		
-Temperature Max (T _{S max})	200 ℃		
-Time (min to max) (ts)	60-180 seconds		
T _{S max} to T _L			
-Ramp-up Rate	3℃/second max.		
Time maintained above:			
-Temperature (T _L)	217℃		
-Time (t _L)	60-150 seconds		
Peak Temperature (T _P)	260℃		
Time within 5°C 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	Itomo	Dimension (mm)	
	Items	Spec.	Tolerance
	W	12.00	±0.20
P0	P0	4.00	±0.10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	P1	8.00	±0.20
	P2	2.00	±0.10
	D0	1.55	±0.10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D1	1.00	±0.10
AO AO	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
	tO	0.40	±0.10
Reel → Lt	D	330.00	±2.00
D d	d	13.00	±0.50
	L	16.00	±2.00
	t	2.00	±0.20
L L	Quantity: 2500pcs		



Circuit Protection Components

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