# VCLD121048G101RB

(1210, 48Vdc, 0.9J, 220A, 450pF, SnPb)

*Multilayer Chip Varistor Datasheet*

## BASIC SPECIFICATION

| | |
|---|---|
| **Case Size** [EIA] | 1210 |
| **Operating Temperature** | -55 to +125°C |
| **Grade** | General |
| **Termination** | SnPb |
| **RoHS** | No |
| **MSL Level** | 1 |
| **Packaging** | T&R 7in (180mm) |
| **Packaging Qty** | 2000 pcs |

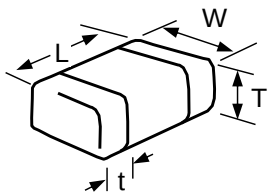
Non RoHS

Click for Online Data

## ELECTRICAL CHARACTERISTICS

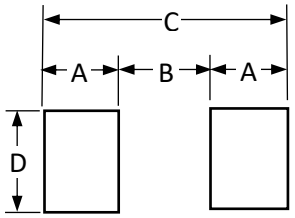
| | |
|---|---|
| **DC Working Voltage** | 48 Vdc |
| **AC Working Voltage** | 34 Vac |
| **Breakdown Votage** [1mA DC] | 62.0±10 V |
| **Clamping Voltage** [8x20µs] | 100V @ 5A |
| **Max Leakage Current** [Vdc, 25°C] | 10 µA |
| **Transient Energy** [10x1000µs] | 0.9 J |
| **Peak Power** [10x1000µs] | 675 W |
| **Peak Current Rating** [8x20µs] | 220 A |
| **Typical Capacitance** [1kHz, 0.5Vrms, 25°C] | 450 pF |
| **Capacitance Tolerance** | +100/-50% |

## DIMENSIONS




| | mm | inches |
|---|---|---|
| **L** | 3.20±0.20 | 0.126±0.008 |
| **W** | 2.49±0.20 | 0.098±0.008 |
| **T** | 1.7 max | 0.067 max |
| **t** | 1.14 max | 0.045 max |

## SOLDERING PAD




| | mm | inches |
|---|---|---|
| **A** | 1.02 | 0.04 |
| **B** | 2.03 | 0.08 |
| **C** | 4.06 | 0.16 |
| **D** | 2.54 | 0.1 |

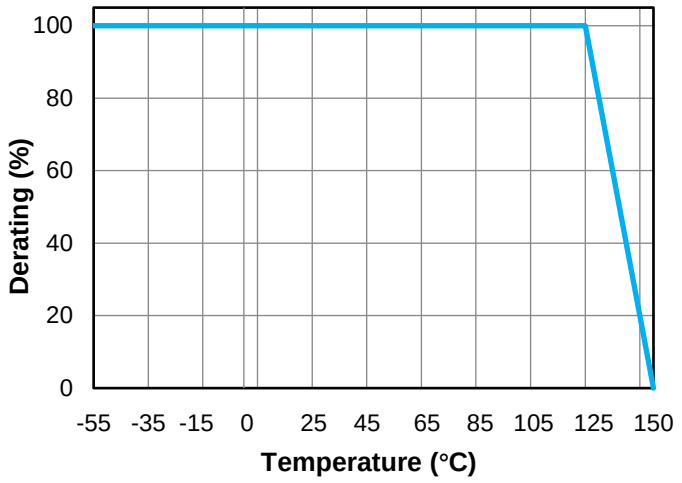
## HOW TO ORDER

| VCLD | 1210 | 48 | G | 101 | R | B |
|---|---|---|---|---|---|---|
| Varistor Chip SnPb | Case Size | Working Voltage | Energy Rating | Clamping Voltage | Packaging | Termination |
| | | 48 = 48Vdc | G = 0.9J | 101 = 100V | D = 7“ reel (1,000pcs)<br>R = 7“ reel (2,000pcs)<br>T = 13“ reel (10,000pcs) | B = SnPb (5% Pb min) |

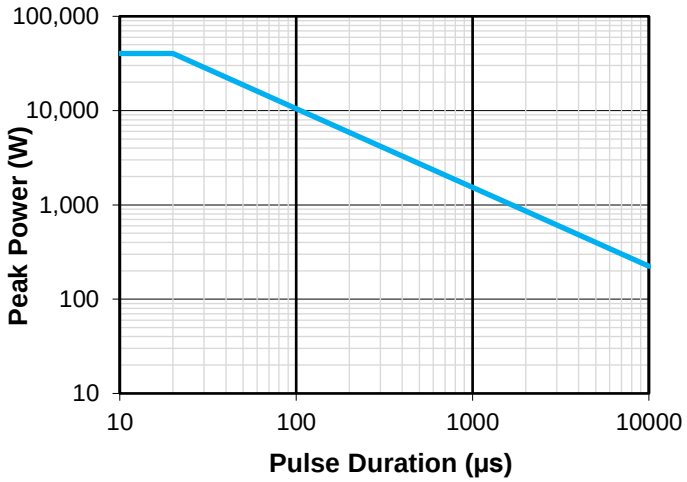

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## TYPICAL CHARACTERISTICS

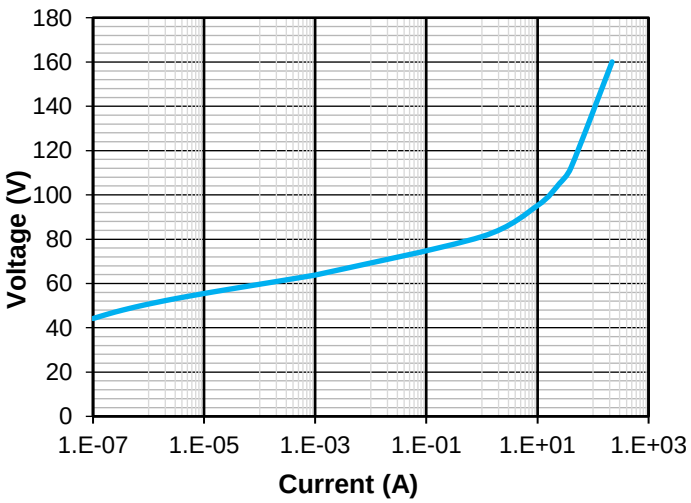
### Temperature Derating (Energy, Current, Power)



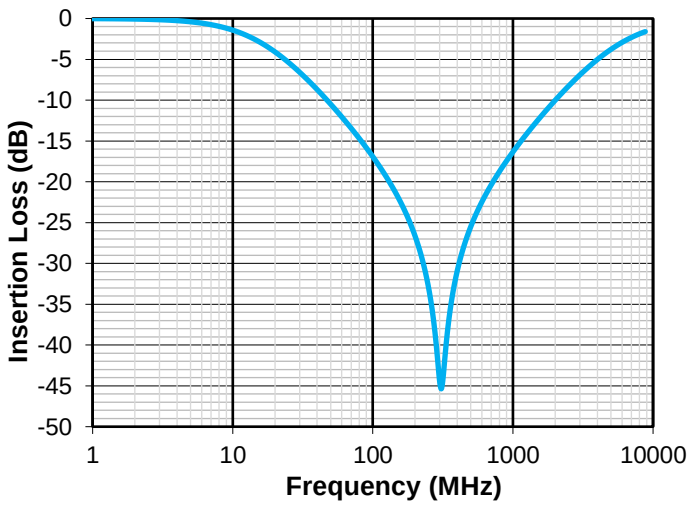

### Power Derating




### Voltage / Current




### S21




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