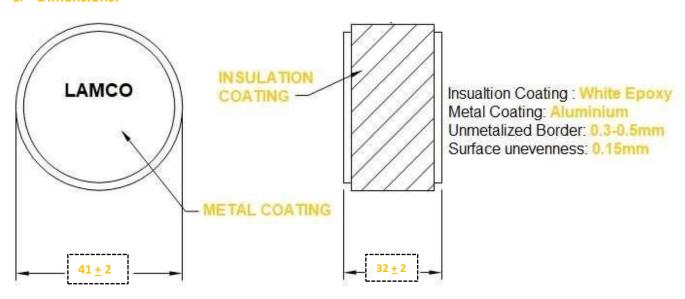
1. Features:

- **High Energy Metal Oxide Varistors**
- Complies to IEC 60099-4 Ed. 2014
- **MOV Designation: Distribution High (DH)**
- Low watt-loss.

2. Electrical Characteristics And Ratings:

Part Number	Rated Voltage	MCOV	Residual Voltage (8/20μs) at			Current Carrying Capacity at		Leakage Current at MCOV		Thermal Energy Rating	Qrs	Watt- loss
			5kAp	10kAp	20kAp	(4/10μs)	2mS	Ir	Ic	Qth	2mS	115°c
	kVrms	kVrms	kVp	kVp	kVp	kAp	Amps	μΑ	μΑ	С	С	w
MOV4132	4.50	3.82	12.97	14.10	15.72	100	200	200	400	1.1	0.4	0.418

3. Dimensions:



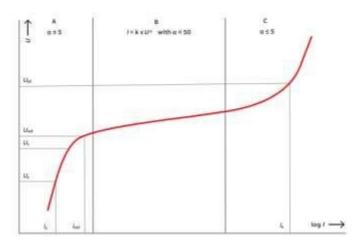
All dimensions are in mm

4. Production Process:

Metal Oxide Varistors (MOV) are made of different metal-oxides; Metal oxides are converted into fine powder form, and then compressed with uni-directional compression in the form of cylindrical and sintered. The diameter of the MOV determines the current; the height of the MO resistors (or resistor stack) determines the voltage in continuous operation. Special graded metals oxides with very less impurities (all together <10ppm) and equal densities achievement in sintering will increases the uniform current carrying capacity across the cross-section of the MOV.

LAMCO manufacture's wide range of MOV's with diameter from 30mm to 120mm and the height from 5mm to 32mm.

5. Characteristics of MOV:



Non-linear voltage-current characteristic of an MO resistor (principle)

A: Region relevant to power frequency voltage:

This region describes the part of the U-I characteristic curve relevant to the power frequency voltage. It is also considered to be the pre-breakdown or low-current region. The continuous operating voltage Uc is the power frequency voltage that can be applied to the MO surge arrester (or MO resistor) continuously without any restrictions. The current flowing through the MO surge arrester is the "leakage" current ic, which is almost purely capacitive. The power losses at Uc can be neglected.

B: Region with the highest non-linearity:

This region is the breakdown region. It is the part of the U-I curve in which even minimal voltage increases lead to a significant rise in the current. Only transient events in the time range of milli- and microseconds (switching over voltages) can be handled by the arrester. A continuous application of power frequency voltage in this area of the characteristic would destroy the MOV in a fraction of a second.

C: Region describing the protection characteristic:

This region is the area of currents greater than about 100 A, and it describes the protective characteristic of the MOV surge arrester. It is considered to be the high-current region. The most important parameter is the lightning impulse protective level Upl. This is the maximum permissible peak voltage on the terminals of an arrester subjected to the nominal discharge current In. The amplitude of the nominal discharge current in, with a wave shape of 8/20 μ s.