



Data Sheet

Product Description

| | |
|--------------------------|---|
| EMS Material Designation | LA125R |
| ASTM Type | -- |
| Number of layers | 3 |
| Standard Marking | -- |
| Remarks | Intermediate electrical resistivity with medium flexivity |



Chemical Composition

| | Grade | Chemistry |
|----------------------|----------|-----------------------|
| High Expansion Alloy | Alloy LA | 20% Ni, 6% Mn, Bal Fe |
| Center Layer | Nickel | Ni |
| Low Expansion Alloy | Alloy 10 | 36% Ni, Bal Fe |

Thermostatic Properties

| | ENGLISH | | METRIC | |
|---------------------------------------|----------------|-----------------------------|----------------|-----------------------------|
| ASTM Flexivity (100-300°F) | 150 | $\times 10^{-7}$ (in/in)/°F | -- | |
| Specific Curvature (38-149°C) | -- | | 25.2 | $\times 10^{-6}$ (mm/mm)/°C |
| Maximum Sensitivity Temperature Range | 0 to 300 | °F | -20 to 150 | °C |
| Useful Deflection Temperature Range | -100 to 700 | °F | -70 to 370 | °C |
| Recommended Maximum Temperature | 1000 | °F | 540 | °C |
| Electrical Resistivity @ 75°F (24°C) | 118.1 to 131.9 | OCMF* | 0.196 to 0.219 | μ ohms-m |

Physical Properties

| | ENGLISH | | METRIC | |
|---------------------------|---------|--------------------|--------|-------------------|
| Density | 0.302 | Lb/in ³ | 8.36 | g/cm ³ |
| Modulus of Elasticity (E) | 26.0 | Msi | 179 | GPa |

*Ohms-Circular-Mil / Foot

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