



## Product Description

EMS Material Designation	LA55R20
ASTM Type	
Numer of Layers	3
Standard Marking	
Remarks	Low Electrical Resistivity with Medium Flexivity

## Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy LA	20% Ni, 6% Mn, Bal Fe
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 20	40% Ni, Bal Fe

## Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	139 X 10 <sup>-7</sup> (in/in)/°F	
Specific Curvature (10-93°C)		25.0 X 10 <sup>-6</sup> (mm/mm)/°C
Maximum Sensitivity Temperature Range	100 to 500°F	38 to 288°C
Useful Deflection Temperature Range	-100 to 700°F	-70 to 370°C
Recommended Maximum Temperature	700°F	370°C
Electrical Resistivity @ 75°F (24°C)	50 to 58 *0CMF	0.083 to 0.096 uohms-m

## Physical Properties

	ENGLISH	METRIC
Density	0.297 Lb/in <sup>3</sup>	8.22 g/cm <sup>3</sup>
Modulus of Elasticity (E)	22 Msi	152 GPa

\*Ohms-Circular-Mil / Foot