

PS02150是一款标准、高性能磁致伸缩合金金属棒，先进制造工艺使产品热磁致伸缩系数 λ 最高可达800PPM，推力达200公斤。PS02150 is a standard and high-performance magnetostrictive alloy bar. Maximum thermal magnetostrictive coefficient:800PPM and maxium thrust:200kg.

PS02150

1、应用领域 Application

- Sonar (high power and low frequency)
- Electric-mechanical transducer
- Consumer Electronics, Audio, Hearing Aid
- Sensors

2、主要参数 Parameter

直径Diameter	2-35 mm
长度Length	10-150 mm

磁致伸缩系数 Magnetostrictive Coefficient	800 PPM
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密度Density	9.25 g/cm ³
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维氏硬度Vickers Hardness	- HV
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抗拉强度Tensile Strength	28 Mpa
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抗压强度 Compressive Strength	700 Mpa
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推力Thrust	200 Kg@ ϕ 10mm
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威德曼扭转角度 Wiedemann Effect	- $^{\circ}$ /cm
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声速Acoustic Speed	1640 m/s
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杨氏模量Young's modulus	25 Gpa
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弹性模量Elastic Modulus	- Gpa
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体积模量Volume Modulus	- Gpa
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饱和磁场Saturated Magnetic Field	1000 Oe
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相对磁导率 Relative Permeability	-
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响应时间Response Time	1 μ s
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电阻率Resistivity	5.8 $\mu\Omega \cdot \text{cm}$
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机电耦合系数 Electromechanical Coupling Coefficient	-
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热传导率Thermal Conductivity	- W/(m-K)@15 $^{\circ}$ C
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熔点Melting Point	- $^{\circ}$ C
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居里温度Curie Temperature	- $^{\circ}$ C
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线膨胀系数Linear Expansion Coefficient	12 ppm/ $^{\circ}$ C @ 25 $^{\circ}$ C
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能量密度Energy Density	14 KJ/m ³
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