

Ceradyne SEMICORE® S2-17A MMPA 24/18 Sm2 (CoFeCuZr)17 Samarium Cobalt Magnet

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Cobalt Alloy

Material Notes:

Magnetic alignment at 90° to Compaction Axis Applications: Microwave amplifiers and oscillators for airborne equipment TWT modules for phased array radar Small motors for severe thermal conditions Hermetic magnetic couplings to replace shaft seals Lightweight generators, usually for aircraft Vane actuators for missiles Particle beam focusing, quadrupoles, lenses, wigglers, etc. Magnetic bearings, gyros, vacuum pumps, accelerometers Various mechanisms in disk drives, cameras, tape drives, and miniature loudspeakers and earphones; where small size is important Magnetic alignment at 90° to compaction angle. Information provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-SEMICORE-S2-17A-MMPA-2418-Sm2-CoFeCuZr17-Samarium-Cobalt-Magnet.php

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 µm/m-°C	7.22 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	10.5 W/m-K	72.5 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000500 ohm-cm	0.0000500 ohm-cm	
Magnetic Coercive Force, Hc	>= 1800 Oe	>= 1800 Oe	Intrinsic
	8800 - 9200 Oe	8800 - 9200 Oe	
Magnetic Remanence, Br	9800 - 10200 Gauss	9800 - 10200 Gauss	
Magnetic Maximum Energy Product, BH	24 - 26 MGOe	24 - 26 MGOe	
Curie Temperature	800 °C	1470 °F	

Descriptive Properties	Value	Comments
Room Temperature Compensation, RTC, %/°C	-0.03	

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