

Material Driven Solutions

For RF & Microwave Applications

NARROW LINEWIDTH GARNET

OVERVIEW

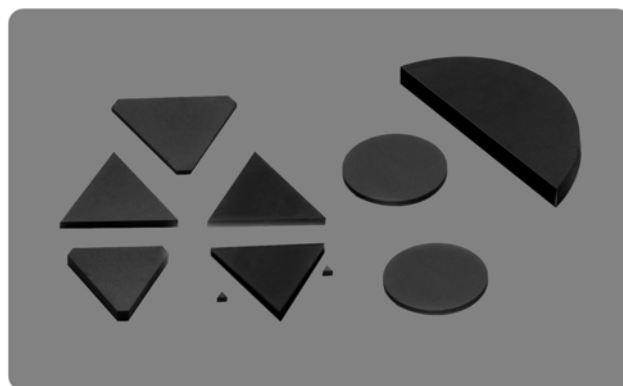
MCV Technologies, Inc., a volume supplier of microwave dielectric and magnetic materials is pleased to offer the wireless communications industry a full series of narrow line width garnets ideally suited for high power isolator and circulator applications.

PRODUCT AVAILABILITY

Family Type	$4\pi M_s$, Gauss	Line Width ΔH (0e @ -3 dB)	Dielectric Constant, ϵ'	Diel. Loss tangent $\tan \delta = \epsilon'' / \epsilon'$	Curie Temperature τ_c (°C), Nominal	Spin Wave Line Width ΔH_{sw} (Oe), Nominal
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MCV GARNET - Narrow Line Width

MGNL - 1950 - 0020	15.2	≤ 2	205	1.5
MGNL - 1950 - 0012	15.2	≤ 2	205	1.5
MGNL - 1900 - 0015	15.1	≤ 2	220	1.5
MGNL - 1900 - 0010	15.1	≤ 2	220	1.5
MGNL - 1600 - 0012	14.7	≤ 2	225	1.5
MGNL - 1600 - 0008	14.7	≤ 2	225	1.5
MGNL - 1400 - 0012	14.7	≤ 2	215	1.5
MGNL - 1400 - 0008	14.7	≤ 2	215	1.5
MGNL - 1380 - 0020	15.0	≤ 2	240	5.0
MGNL - 1200 - 0010	14.2	≤ 2	180	1.5
MGNL - 1200 - 0018	14.9	≤ 2	215	3.0
MGNL - 1000 - 0010	14.5	≤ 2	190	1.5
MGNL - 0900 - 0010	14.2	≤ 2	180	1.5
MGNL - 0800 - 0010	14.2	≤ 2	170	1.5
MGNL - 0520 - 0010	13.3	≤ 2	120	1.5



TYPICAL APPLICATIONS

- Isolators
- Circulators

These materials are ideally suited for high power isolator and circulator devices used in base station such as GSM, 3G, 4G and CDMA, etc for the telecom industry.

AVAILABILITY

Narrow line width garners are available in a variety of shapes and sizes including bars, rods, disks and triangles. We can also supply magnetic materials in substrate form.

In addition, we offer microwave dielectrics with dielectric constant ranging from ϵ' of 4 to 120 for circuit matching. Please consult the factory for details.

CAPABILITY

MCV maintains a 45,000 square foot manufacturing facility to provide its customers with technically advanced high quality products at competitive prices. Our facilities have been ISO 9001, ISO 9002, and ISO 14001 certified



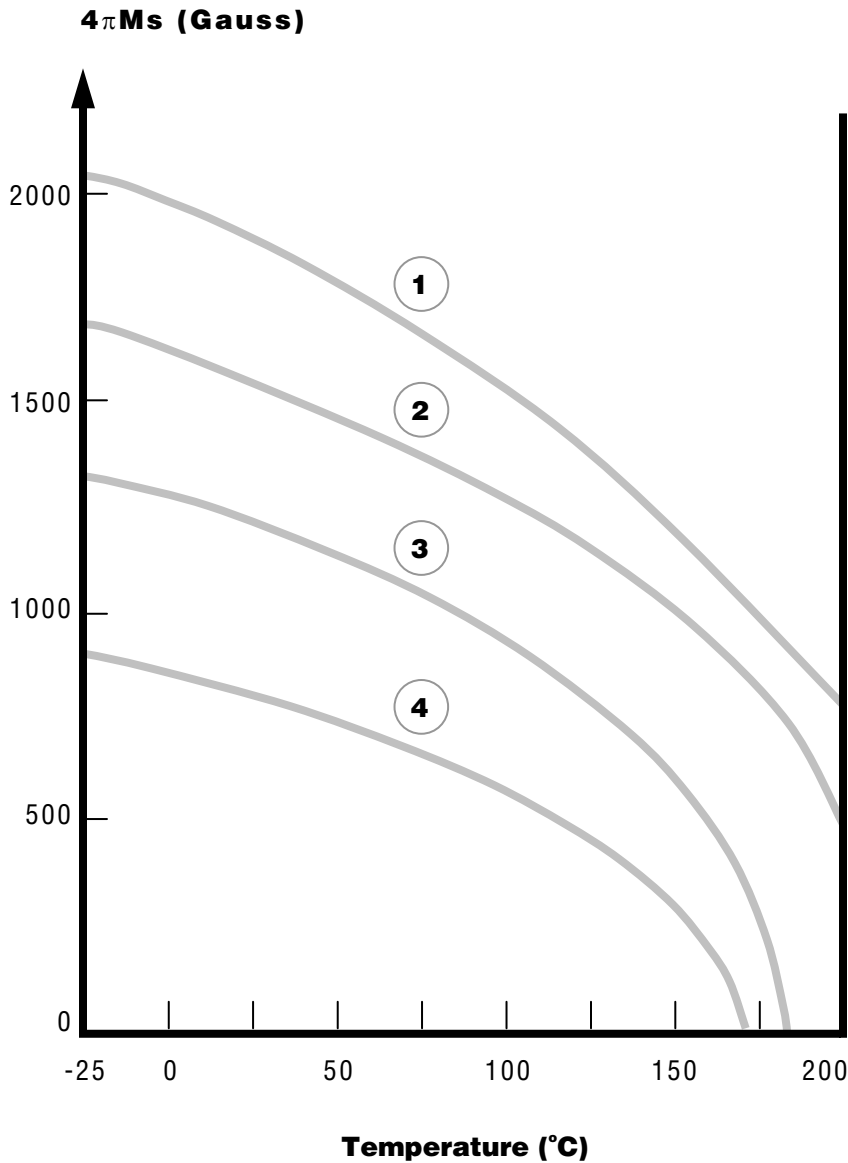
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NARROW LINEWIDTH GARNET

MEASUREMENTS AND TOLERANCES



- (1) MGNL-1900-0015
- (2) MGNL-1600-0012
- (3) MGNL-1200-0010
- (4) MGNL-0800-0010

Tolerances

4 π Ms (Gauss), $\pm 5\%$
 Line Width, < 20% of value given
 Dielectric Constant, $\pm 5\%$

ORDERING INFORMATION

MG	NL	4πMs(Gauss)	LINE WIDTH
MCV Garnet	Material Type	Saturation Magnetization	ΔH (oe @ -3dB)

MGNL - 1600 - 0008 = MCV Garnet, Narrow Line Width, 1600 Gauss, 8 oe line width



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