

# Announcement



## > Magnetics, Inc. A, D and G Material Replacements

Effective immediately, Magnetics has discontinued three of their older, passive filter materials: A, D, and G. To address the elimination of these materials Magnetics has introduced three recommended replacement materials, C, E and V. A chart comparing the materials is below for your reference. Qualifying the suggested replacement materials is our recommended solution. If you are interested in qualifying the new materials please contact us regarding samples. However, if these materials are not suitable for your application, you prefer not to qualify the new materials, or you require additional time to qualify the new materials we will be able to accept last time orders of A, D and G material until June of 2006. Please be aware that the acceptance of orders for A, D and G material are dependent on the availability of existing powder at Magnetics. We are looking forward to working with you during this transition.

## CONTACT US

### > North America

Ph: 800-775-3829  
 Fx: 877-221-5052  
 info@dextermag.com

### > Europe

Ph: +44 1753 737400  
 Fx: +44 1753 737401  
 France: 0800 919661  
 Germany: 0800 1830359  
 info@dextermag.com



A -to- C	Material Code A	Material Code C
Status	<b>To Be Discountinued</b>	Suggested Replacement for A
Permeability	750 +/- 20%	900 +/- 20%
Relative Temperature Factor (Typical) -30°C to +20°C	2.0x10 <sup>-6</sup> to 4.0x10 <sup>-6</sup> / °C	1.0x10 <sup>-6</sup> to 3.0x10 <sup>-6</sup> / °C
Relative Temperature Factor +20°C to +70°C	1.0x10 <sup>-6</sup> to 3.0x10 <sup>-6</sup> / °C	0.5x10 <sup>-6</sup> to 2.5x10 <sup>-6</sup> / °C
Freq. Response (Typ. 50% rolloff)	9 MHz	8 MHz
Relative Loss Factor	12x10 <sup>-6</sup> max @ 500kHz 20x10 <sup>-6</sup> max @ 1kHz	10x10 <sup>-6</sup> max @ 300kHz 30x10 <sup>-6</sup> max @ 1kHz
Disaccommodation Factor	15x10 <sup>-6</sup> max	12x10 <sup>-6</sup> max
Curie Temperature	260°C min	200°C min
B <sub>max</sub>	4600 G min	3800 G min
Shape availability	Pot cores, RM cores	Pot cores, RM cores
Toroid availability	Toroids up to 38 mm OD	Toroids up to 38 mm OD

## AUTHORIZED DISTRIBUTOR FOR:

- > Acme Electronics
- > EPCOS
- > Fair-Rite Products
- > Ferronics
- > GE Industrial Sensing
- > Magnetics Inc.
- > Miles Platts (N.A. only)
- > TDK (Europe only)
- > Toshiba (N.A. only)
- > RTI Electronics

## CAPABILITIES:

- > North American and European service centers
- > Engineering/Application assistance
- > Warehouse/material management programs
- > Fabrication-Gapping, slotting, slicing and shaping
- > World class ISO 9001:2000 quality assurance

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# Material Replacements

D –to- E	Material Code D	Material Code E
Status	<b>To Be Discontinued</b>	Suggested Replacement for <b>D</b>
Permeability	2000 +/- 20%	2000 +/- 20%
Relative Temperature Factor (Typical) -30°C to +20°C	0.9x10 <sup>-6</sup> to 2.1x10 <sup>-6</sup> / °C	0.4x10 <sup>-6</sup> to 2.5x10 <sup>-6</sup> / °C
Relative Temperature Factor +20°C to +70°C	0.9x10 <sup>-6</sup> to 2.1x10 <sup>-6</sup> / °C	0.2x10 <sup>-6</sup> to 1.2x10 <sup>-6</sup> / °C
Freq. Response (Typ. 50% rolloff)	4 MHz	3 MHz
Relative Loss Factor	6x10 <sup>-6</sup> max @ 100kHz	3.0x10 <sup>-6</sup> typ @ 100kHz 6.0x10 <sup>-6</sup> max @ 100kHz
Disaccommodation Factor	2.0x10 <sup>-6</sup> max	3.0x10 <sup>-6</sup> max
Curie Temperature	145°C min	160°C min
B <sub>max</sub>	3800 G min	3600 G min
Shape availability	Pot cores, RM cores	Pot cores, RM cores
Toroid availability	Toroids up to 38 mm OD	<u>Toroids not available</u>

G –to- V	Material Code G	Material Code V
Status	<b>To Be Discontinued</b>	Suggested Replacement for <b>G</b>
Permeability	2300 +/- 20%	2300 +/- 20%
Relative Temperature Factor (Typical) -30°C to +20°C	2.0x10 <sup>-6</sup> to 5.0x10 <sup>-6</sup> / °C	1.0x10 <sup>-6</sup> to 5.0x10 <sup>-6</sup> / °C
Relative Temperature Factor +20°C to +70°C	-0.7x10 <sup>-6</sup> to 0.7x10 <sup>-6</sup> / °C	-0.7x10 <sup>-6</sup> to 0.7x10 <sup>-6</sup> / °C
Freq. Response (Typ. 50% rolloff)	4 MHz	1.5 MHz
Relative Loss Factor	6x10 <sup>-6</sup> max @ 100kHz	6x10 <sup>-6</sup> max @ 100kHz
Disaccommodation Factor	3.5x10 <sup>-6</sup> max	4.5x10 <sup>-6</sup> max
Curie Temperature	180°C min	170°C min
B <sub>max</sub>	4600 G min	4400 G min
Shape availability	Pot cores, RM cores	Pot cores, RM cores
Toroid availability	Toroids up to 38 mm OD	<u>Toroids not available</u>

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