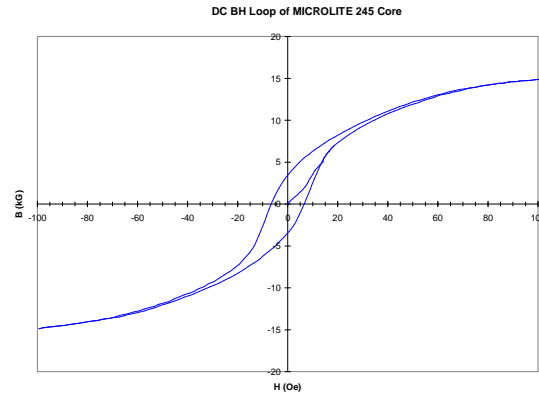


MICROLITE[®] Toroidal Cores are manufactured with Metglas[®] amorphous alloy 2605SA1 ribbon. Their unique combination of high saturation flux density and low loss make them the first choice for all energy storage applications, enabling the designer to achieve both size and system cost reduction.



Applications

- SMPS output inductors
- Flyback transformers
- Differential input inductors
- PVC inductors
- VRM inductors

Benefits

- High saturated flux density
- Significant size reduction
- Low core loss
- Extended bias capability
- Fewer turns due to higher permeability

Physical Properties Metglas MICROLITE XP Cores

| | |
|---|------|
| Ribbon Thickness (μm) | .23 |
| Density (g/cm ³) | 7.18 |
| Thermal Expansion (ppm/°C) | 7.6 |
| Crystallization Temperature (°C) | .508 |
| Curie Temperature (°C) | .399 |
| Continuous Service Temperature (°C) | .150 |

Magnetic Properties Metglas MICROLITE XP Cores

| | |
|---|----------|
| Saturation Flux Density (T) | 1.56 |
| Permeability (depending on core size) | .245/270 |

Percent Permeability vs. DC Bias @ 25°C

MICROLITE $\mu = 245$



MICROLITE $\mu = 270$



Core Loss vs. Flux Density @ 25°C



Temperature Dependence of Inductance

MICROLITE $\mu = 245$



Permeability vs. Frequency





Ordering Information

Example:
MP1710XDGC

METGLAS Products
Outside Diameter (OD)
Height (HT)

Distributed Gap Core

| Box Type (X) | DuPont Material | UL File No. | Flam. Rating UL 94 | Elec. Rel. Temp. Rec. Index (UL746B) Temp. |
|--------------|-----------------|-------------|--------------------|--|
| P | Zyrel® 7DG33L | E41938 | HB | 120 |
| L | Zyrel® FR50 | E41938 | V-O | 130 |
| V | Rymite® FR530L | E68678 | V-O | 150 |
| M | Epoxy FR534SD | E206120 | — | — |

Class B, F
Encapsulated cores are available upon request.

| MICROLITE® Toroidal Cores | | | | | | | | | | |
|---------------------------|----------------|--------------|--------------|------------------------|-----------------------------------|------------------------|-----------------------------------|--|--------------|---------------------------------------|
| Core No. | CORE DIMENSION | | | Performance Parameters | | | | | | |
| | O.D.Max (mm) | I.D.Min (mm) | Ht. Max (mm) | l _m (cm) | A _c (cm ²) | Vol (cm ³) | W _a (cm ²) | W _a A _c (cm ⁴) | Initial Perm | A _L * (nH/N ²) |
| MP1005MDGC | 11.32 | 4.47 | 6.12 | 2.40 | 0.10 | 0.25 | 0.16 | 0.016 | 270 | 144.1 |
| MP1105MDGC | 12.19 | 6.07 | 6.29 | 2.80 | 0.10 | 0.27 | 0.29 | 0.028 | 270 | 116.5 |
| MP1205MDGC | 13.66 | 7.46 | 6.29 | 3.22 | 0.09 | 0.30 | 0.44 | 0.041 | 270 | 97.7 |
| MP1306MDGC | 14.67 | 7.46 | 7.87 | 3.37 | 0.15 | 0.51 | 0.44 | 0.066 | 245 | 137.8 |
| MP1603MDGC | 17.03 | 8.99 | 4.70 | 3.98 | 0.09 | 0.34 | 0.63 | 0.055 | 270 | 73.9 |
| MP1710MDGC | 18.68 | 12.16 | 11.05 | 4.74 | 0.20 | 0.94 | 1.16 | 0.230 | 245 | 128.5 |
| MP2010MDGC | 21.25 | 12.16 | 11.05 | 5.13 | 0.30 | 1.54 | 1.16 | 0.348 | 245 | 180.1 |
| MP2310MDGC | 24.35 | 12.16 | 11.05 | 5.60 | 0.43 | 2.38 | 1.16 | 0.494 | 245 | 233.7 |
| MP2510MDGC | 26.84 | 18.51 | 11.05 | 7.01 | 0.27 | 1.89 | 2.69 | 0.725 | 245 | 118.4 |
| MP2610MDGC | 26.92 | 15.97 | 11.05 | 6.61 | 0.37 | 2.48 | 2.00 | 0.751 | 245 | 174.6 |
| MP3210MDGC | 33.57 | 21.69 | 11.05 | 8.54 | 0.41 | 3.52 | 3.69 | 1.520 | 245 | 148.3 |
| MP3310MDGC | 34.06 | 14.70 | 11.05 | 7.49 | 0.71 | 5.34 | 1.70 | 1.210 | 245 | 292.9 |
| MP3505MDGC | 36.40 | 21.69 | 6.29 | 8.97 | 0.26 | 2.35 | 3.69 | 0.968 | 245 | 90.0 |
| MP3510MDGC | 36.52 | 18.51 | 11.05 | 8.48 | 0.66 | 5.58 | 2.69 | 1.770 | 245 | 238.9 |
| MP3710MDGC | 38.50 | 21.69 | 11.05 | 9.29 | 0.61 | 5.66 | 3.69 | 2.251 | 245 | 201.9 |
| MP4010MDGC | 41.58 | 21.69 | 11.05 | 9.76 | 0.73 | 7.15 | 3.69 | 2.706 | 245 | 231.1 |
| MP4510MDGC | 46.73 | 21.69 | 11.05 | 10.55 | 0.94 | 9.91 | 3.69 | 3.472 | 245 | 274.4 |
| MP7050MDGC | 13.23 | 7.46 | 6.12 | 3.14 | 0.08 | 0.25 | 0.44 | 0.035 | 245 | 78.2 |
| MP7089MDGC | 46.55 | 28.95 | 15.72 | 11.65 | 0.94 | 10.92 | 6.58 | 6.170 | 245 | 247.7 |
| MP7109MDGC | 57.21 | 37.44 | 15.32 | 14.64 | 1.03 | 15.13 | 11.01 | 11.376 | 245 | 217.4 |
| MP7120MDGC | 17.31 | 10.46 | 7.87 | 4.24 | 0.14 | 0.59 | 0.86 | 0.119 | 245 | 100.3 |
| MP7195MDGC | 54.32 | 26.97 | 16.52 | 12.49 | 1.60 | 19.98 | 5.71 | 9.136 | 245 | 394.1 |
| MP7206MDGC | 21.41 | 13.46 | 7.87 | 5.35 | 0.17 | 0.89 | 1.42 | 0.238 | 245 | 96.2 |
| MP7254MDGC | 39.38 | 24.86 | 15.65 | 9.91 | 0.75 | 7.46 | 4.85 | 3.656 | 245 | 234.1 |
| MP7310MDGC | 23.49 | 13.46 | 7.87 | 5.66 | 0.22 | 1.25 | 1.42 | 0.315 | 245 | 120.7 |
| MP7324MDGC | 36.99 | 23.01 | 11.05 | 9.24 | 0.49 | 4.50 | 4.16 | 2.026 | 245 | 162.3 |
| MP7350MDGC | 23.53 | 14.22 | 9.91 | 5.79 | 0.27 | 1.55 | 1.59 | 0.425 | 245 | 142.3 |
| MP7380MDGC | 18.30 | 10.23 | 7.87 | 4.35 | 0.17 | 0.74 | 0.82 | 0.140 | 245 | 120.6 |
| MP7438MDGC | 46.61 | 25.22 | 18.99 | 11.05 | 1.43 | 15.80 | 4.99 | 7.141 | 245 | 398.4 |
| MP7548MDGC | 33.25 | 19.73 | 11.05 | 8.15 | 0.47 | 3.82 | 3.06 | 1.435 | 245 | 177.4 |
| MP7585MDGC | 34.87 | 23.95 | 9.91 | 9.08 | 0.32 | 2.93 | 4.50 | 1.452 | 245 | 109.3 |
| MP7715MDGC | 51.53 | 32.46 | 13.89 | 12.97 | 0.89 | 11.57 | 8.27 | 7.379 | 245 | 211.7 |
| MP7930MDGC | 27.18 | 13.46 | 11.05 | 6.21 | 0.48 | 2.97 | 1.42 | 0.681 | 245 | 237.3 |

| MICROLITE® Toroidal Cores | | | | | | | | | | |
|---------------------------|----------------|--------------|--------------|------------------------|-----------------------------------|------------------------|-----------------------------------|--|--------------|---------------------------------------|
| Core No. | CORE DIMENSION | | | Performance Parameters | | | | | | |
| | O.D.Max (mm) | I.D.Min (mm) | Ht. Max (mm) | l _m (cm) | A _c (cm ²) | Vol (cm ³) | W _g (cm ²) | W _g A _c (cm ⁴) | Initial Perm | A _L * (nH/N ²) |
| MP1306LDGC | 15.80 | 6.17 | 8.13 | 3.37 | 0.15 | 0.51 | 0.30 | 0.045 | 245 | 137.8 |
| MP1306PDGC | 15.80 | 6.17 | 8.13 | 3.37 | 0.15 | 0.51 | 0.30 | 0.045 | 245 | 137.8 |
| MP1306VDGC | 15.80 | 6.17 | 8.13 | 3.37 | 0.15 | 0.51 | 0.30 | 0.045 | 245 | 137.8 |
| MP1603LDGC | 18.24 | 7.87 | 4.70 | 3.98 | 0.09 | 0.34 | 0.49 | 0.042 | 270 | 73.9 |
| MP1603PDGC | 18.24 | 7.87 | 4.70 | 3.98 | 0.09 | 0.34 | 0.49 | 0.042 | 270 | 73.9 |
| MP1603VDGC | 18.24 | 7.87 | 4.70 | 3.98 | 0.09 | 0.34 | 0.49 | 0.042 | 270 | 73.9 |
| MP1710LDGC | 20.22 | 10.87 | 11.43 | 4.74 | 0.20 | 0.94 | 0.93 | 0.184 | 245 | 128.5 |
| MP1710PDGC | 20.22 | 10.87 | 11.43 | 4.74 | 0.20 | 0.94 | 0.93 | 0.184 | 245 | 128.5 |
| MP1710VDGC | 20.22 | 10.87 | 11.43 | 4.74 | 0.20 | 0.94 | 0.93 | 0.184 | 245 | 128.5 |
| MP2010LDGC | 22.78 | 10.87 | 11.43 | 5.13 | 0.30 | 1.54 | 0.93 | 0.278 | 245 | 180.1 |
| MP2010PDGC | 22.78 | 10.87 | 11.43 | 5.13 | 0.30 | 1.54 | 0.93 | 0.278 | 245 | 180.1 |
| MP2010VDGC | 22.78 | 10.87 | 11.43 | 5.13 | 0.30 | 1.54 | 0.93 | 0.278 | 245 | 180.1 |
| MP2310LDGC | 25.91 | 10.80 | 11.48 | 5.60 | 0.43 | 2.38 | 0.92 | 0.389 | 245 | 233.7 |
| MP2310PDGC | 25.91 | 10.80 | 11.48 | 5.60 | 0.43 | 2.38 | 0.92 | 0.389 | 245 | 233.7 |
| MP2310VDGC | 25.91 | 10.80 | 11.48 | 5.60 | 0.43 | 2.38 | 0.92 | 0.389 | 245 | 233.7 |
| MP2510LDGC | 27.79 | 17.27 | 11.48 | 7.01 | 0.27 | 1.89 | 2.34 | 0.631 | 245 | 118.4 |
| MP2510PDGC | 27.79 | 17.27 | 11.48 | 7.01 | 0.27 | 1.89 | 2.34 | 0.631 | 245 | 118.4 |
| MP2510VDGC | 27.79 | 17.27 | 11.48 | 7.01 | 0.27 | 1.89 | 2.34 | 0.631 | 245 | 118.4 |
| MP2610LDGC | 28.32 | 14.15 | 11.48 | 6.61 | 0.37 | 2.48 | 1.57 | 0.589 | 245 | 174.6 |
| MP2610PDGC | 28.32 | 14.15 | 11.48 | 6.61 | 0.37 | 2.48 | 1.57 | 0.589 | 245 | 174.6 |
| MP2610VDGC | 28.32 | 14.15 | 11.48 | 6.61 | 0.37 | 2.48 | 1.57 | 0.589 | 245 | 174.6 |
| MP3210LDGC | 34.95 | 19.86 | 11.48 | 8.54 | 0.41 | 3.52 | 3.10 | 1.275 | 245 | 148.3 |
| MP3210PDGC | 34.95 | 19.86 | 11.48 | 8.54 | 0.41 | 3.52 | 3.10 | 1.275 | 245 | 148.3 |
| MP3210VDGC | 34.95 | 19.86 | 11.48 | 8.54 | 0.41 | 3.52 | 3.10 | 1.275 | 245 | 148.3 |
| MP3310LDGC | 36.07 | 12.95 | 11.48 | 7.49 | 0.71 | 5.34 | 1.32 | 0.939 | 245 | 292.9 |
| MP3310PDGC | 36.07 | 12.95 | 11.48 | 7.49 | 0.71 | 5.34 | 1.32 | 0.939 | 245 | 292.9 |
| MP3310VDGC | 36.07 | 12.95 | 11.48 | 7.49 | 0.71 | 5.34 | 1.32 | 0.939 | 245 | 292.9 |
| MP3510LDGC | 38.10 | 16.69 | 11.48 | 8.48 | 0.66 | 5.58 | 2.19 | 1.439 | 245 | 238.9 |
| MP3510PDGC | 38.10 | 16.69 | 11.48 | 8.48 | 0.66 | 5.58 | 2.19 | 1.439 | 245 | 238.9 |
| MP3510VDGC | 38.10 | 16.69 | 11.48 | 8.48 | 0.66 | 5.58 | 2.19 | 1.439 | 245 | 238.9 |
| MP4010LDGC | 43.05 | 19.86 | 11.48 | 9.76 | 0.73 | 7.15 | 3.10 | 2.270 | 245 | 231.1 |
| MP4010PDGC | 43.05 | 19.86 | 11.48 | 9.76 | 0.73 | 7.15 | 3.10 | 2.270 | 245 | 231.1 |
| MP4010VDGC | 43.05 | 19.86 | 11.48 | 9.76 | 0.73 | 7.15 | 3.10 | 2.270 | 245 | 231.1 |
| MP4510LDGC | 48.13 | 19.86 | 11.48 | 10.55 | 0.94 | 9.91 | 3.10 | 2.912 | 245 | 274.4 |
| MP4510PDGC | 48.13 | 19.86 | 11.48 | 10.55 | 0.94 | 9.91 | 3.10 | 2.912 | 245 | 274.4 |
| MP4510VDGC | 48.13 | 19.86 | 11.48 | 10.55 | 0.94 | 9.91 | 3.10 | 2.912 | 245 | 274.4 |

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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