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

<table>
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<th>Property</th>
<th>Value</th>
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<tbody>
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<td>Ribbon Thickness (µm)</td>
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<td>Density (g/cm³)</td>
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<td>Thermal Expansion (ppm/°C)</td>
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Magnetic Properties Metglas MICROLITE XP Cores

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Percent Permeability vs. DC Bias @ 25°C

MICROLITE $\mu = 245$

$H = \frac{0.4 \| N I}{\delta_M}$ (Oe)

where $N =$ number of turns
$I =$ dc current (amps)
$\delta_M =$ mean magnetic path length (cm)

% nominal permeability at bias

$H (Oe)$

MICROLITE $\mu = 270$

$H = \frac{0.4 \| N I}{\delta_M}$ (Oe)

where $N =$ number of turns
$I =$ dc current (amps)
$\delta_M =$ mean magnetic path length (cm)

% nominal permeability at bias

$H (Oe)$
Core Loss vs. Flux Density @ 25°C

MICROLITE $\mu = 245$

Loss in W/kg

$= 275 fB^4 + 0.114 f^2 B^2$

where $B$ is in Tesla

$f$ is in KHz

MICROLITE $\mu = 270$

Loss in W/kg

$= 316 fB^4 + 0.114 f^2 B^2$

where $B$ is in Tesla

$f$ is in KHz
Temperature Dependence of Inductance

MICROLITE® = 245

Permeability vs. Frequency

Frequency [kHz]
# MICROLITE® High Frequency Distributed Gap Inductor Cores

## Ordering Information

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<th>Distributed Gap Core Height (mm)</th>
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## MICROLITE® Toroidal Cores

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<th>O.D. Min (mm)</th>
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<th>(W_i) (cm³)</th>
<th>(W_{iA}) (cm³)</th>
<th>Initial Perm</th>
<th>(A_i^*) (nH/cm²)</th>
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## MICROLITE® Toroidal Cores

### Core Dimension
- **Core No.**
- **O.D. Max (mm)**
- **I.D. Min (mm)**
- **Ht. Max (mm)**
- **Lm (cm)**
- **A<sub>c</sub> (cm<sup>2</sup>)**
- **Vol (cm<sup>3</sup>)**
- **W<sub>2</sub> (cm<sup>2</sup>)**
- **W<sub>2</sub>A<sub>c</sub> (cm<sup>4</sup>)**
- **Initial Perm**
- **A<sub>L</sub> (nH/N<sup>2</sup>)**

<table>
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<tr>
<th>Core No.</th>
<th>O.D. Max (mm)</th>
<th>I.D. Min (mm)</th>
<th>Ht. Max (mm)</th>
<th>Lm (cm)</th>
<th>A&lt;sub&gt;c&lt;/sub&gt; (cm&lt;sup&gt;2&lt;/sup&gt;)</th>
<th>Vol (cm&lt;sup&gt;3&lt;/sup&gt;)</th>
<th>W&lt;sub&gt;2&lt;/sub&gt; (cm&lt;sup&gt;2&lt;/sup&gt;)</th>
<th>W&lt;sub&gt;2&lt;/sub&gt;A&lt;sub&gt;c&lt;/sub&gt; (cm&lt;sup&gt;4&lt;/sup&gt;)</th>
<th>Initial Perm</th>
<th>A&lt;sub&gt;L&lt;/sub&gt; (nH/N&lt;sup&gt;2&lt;/sup&gt;)</th>
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