



C055310W4

110 Delta Drive
 Pittsburgh, PA 15238
 NAFTA Sales: (1)800-245-3984
 HK Sales : (852)3102-9337
 magnetics@spang.com
 www.mag-inc.com



| MPP Permeability (μ) | A_L (nH/T ²) | Core Marking | | | Coating Color |
|----------------------------|----------------------------|--------------|-------------|------------------|---------------|
| | | Lot Number | Part Number | Inductance Grade | |
| 125 | 90 ± 8% | XXXXXX | 55310W4 | X | Gray |

| Dimensions | Uncoated | | Coated Limits | | | Packaging |
|------------|----------|-------|---------------|-------|-----|--|
| | (mm) | (in) | (mm) | (in) | | |
| OD (A) | 22.86 | 0.900 | 23.62 | 0.930 | max | Bulk Pack 4 bags/box Box Qty= 1000 pcs |
| ID (B) | 13.97 | 0.550 | 13.34 | 0.525 | min | |
| HT (C) | 7.62 | 0.300 | 8.38 | 0.330 | max | |

| Electrical Characteristics | | | Physical Characteristics | | | | | | |
|---|------------------------|------|---|-------------------------|---|---|---------------------------------|--|------------|
| Watt Loss @ 100 kHz, 100mT max(mW/cm ³) | DC Bias min (oersteds) | | Voltage Breakdown wire to wire min (V _{AC}) | Break Strength min (kg) | Window Area W _A (mm ²) | Cross Section A _e (mm ²) | Path Length L _e (mm) | Volume V _e (mm ³) | Weight (g) |
| | 850 | 80% | | | | | | | |
| | 25.0 | 48.5 | | | | | | | |

| Winding Information | | | | Wound Coil Dimensions (mm) | | Temperature Rating | | |
|-------------------------|------|----------------|------|---------------------------------|------|---|------|--------------------------------------|
| Winding Length Per Turn | | | | 40% Winding Factor | | OD | 25.7 | Curie Temp: 460 °C |
| Winding Factor | (mm) | Winding Factor | (mm) | Completely Full Window | | HT | 12.4 | Coating Temp (Continuous to): 200 °C |
| | | | | Max OD | 32.6 | Notes: | | |
| 0% | 27.0 | 40% | 33.9 | Max HT | 19.8 | W4 stabilization: Controlled stabilization with Inductance stability limits of +/- 0.25% over temperature range -55°C to +85°C measured at low drive level (<10mT). For power inductors use standard stabilization, A2. | | |
| 20% | 30.5 | 45% | 34.9 | Surface Area (mm ²) | | | | |
| 25% | 31.3 | 50% | 35.9 | Unwound Core | | 1,600 | | |
| 30% | 32.0 | 60% | 38.0 | 40% Winding Factor | | 2,400 | | |
| 35% | 33.1 | 70% | 40.4 | | | | | |

