

**RoHS  
Compliant**

**Surface Mount  
Resistors  
5 Watts**



### General Specifications

|                       |                           |
|-----------------------|---------------------------|
| Resistive Element     | Thick film                |
| Substrate             | BeO Ceramic               |
| Terminals             | Thick film Silver         |
| Operating Temperature | -55 to +125°C (see chart) |

Tolerance is  $\pm 0.010''$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

### Electrical Specifications

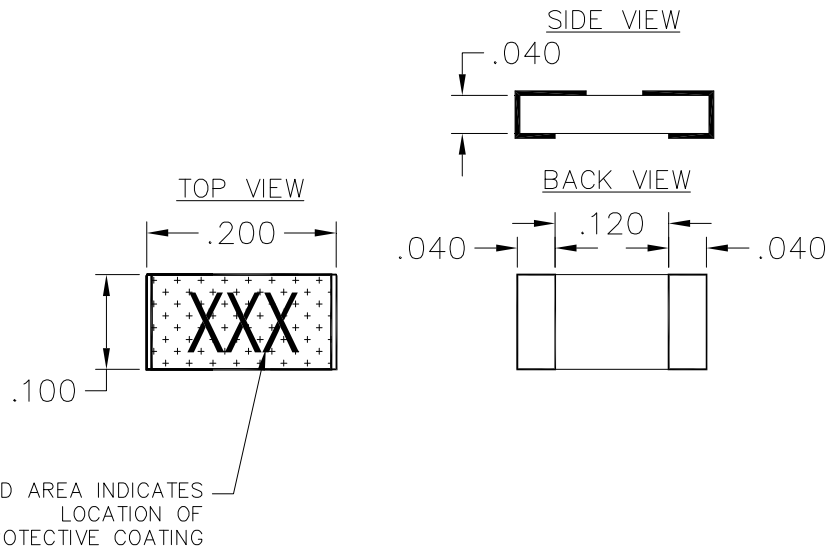
|                   |                      |
|-------------------|----------------------|
| Resistance Value: | See Chart, $\pm 2\%$ |
| Power:            | 5 Watts              |
| Frequency Range:  | DC – 3.0 GHz         |
| Capacitance       | 0.3 pF               |

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change without notice**

### Features:

- 5 Watts
- Surface Mount
- Beryllium Oxide Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- RoHS Compliant

### Outline Drawing



D5BXXXXY1A (097) Rev E

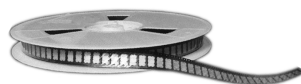
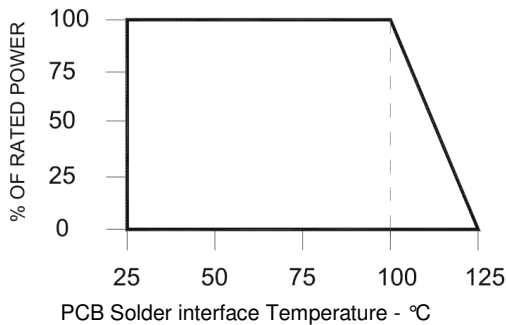




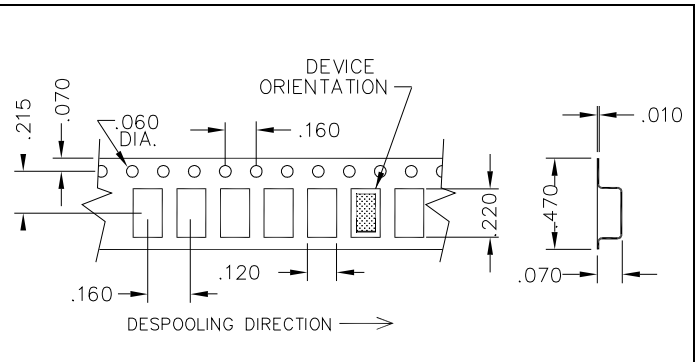
TABLE I

| REFERENCE  | VALUE         | TOL.      | MATERIAL |
|------------|---------------|-----------|----------|
| D5BR5Y1A   | 0.5 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B1Y1A    | 1 $\Omega$    | $\pm 2\%$ | BeO .040 |
| D5B1R2Y1A  | 1.2 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B4Y1A    | 4 $\Omega$    | $\pm 2\%$ | BeO .040 |
| D5B5Y1A    | 5 $\Omega$    | $\pm 2\%$ | BeO .040 |
| D5B10Y1A   | 10 $\Omega$   | $\pm 2\%$ | BeO .040 |
| D5B25Y1A   | 25 $\Omega$   | $\pm 2\%$ | BeO .040 |
| D5B36R5Y1A | 36.5 $\Omega$ | $\pm 1\%$ | BeO .040 |
| D5B39R2Y1A | 39.2 $\Omega$ | $\pm 1\%$ | BeO .040 |
| D5B50Y1A   | 50 $\Omega$   | $\pm 2\%$ | BeO .040 |
| D5B51Y1A   | 51 $\Omega$   | $\pm 1\%$ | BeO .040 |
| D5B54Y1A   | 54 $\Omega$   | $\pm 2\%$ | BeO .040 |
| D5B100Y1A  | 100 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B120Y1A  | 120 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B150Y1A  | 150 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B220Y1A  | 220 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B255Y1A  | 255 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B750Y1A  | 750 $\Omega$  | $\pm 2\%$ | BeO .040 |
| D5B1KY1A   | 1K $\Omega$   | $\pm 2\%$ | BeO .040 |

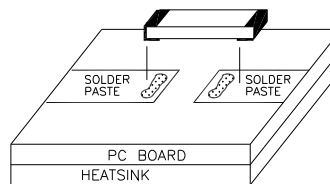
**Power De-rating:**



**Tape & Reel:**



**Mounting Footprint and Procedure:**



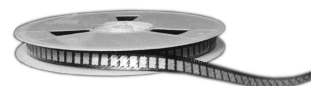
MOUNTING PROCEDURE

1. Make sure that the devices are mounted on flat surfaces (0.001" under the device) to optimize the heat transfer.
2. Position device on mounting surface and solder in place using an appropriate type solder.

D5BXXXXY1A (097) Rev E

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Available on Tape and Reel For Pick and Place Manufacturing.



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