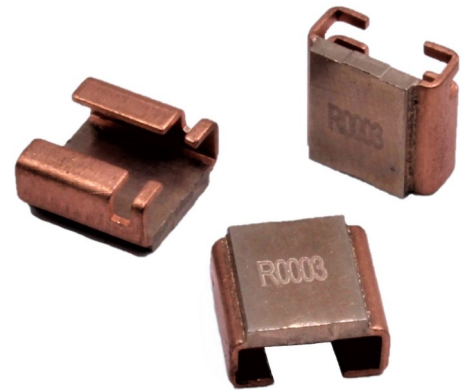


## LRMAP2726

### Features:

- 4-terminal Kelvin J-lead terminations
- Resistance range 0.2mΩ to 5mΩ
- 5W rating in compact footprint
- Robust welded construction
- Low inductance



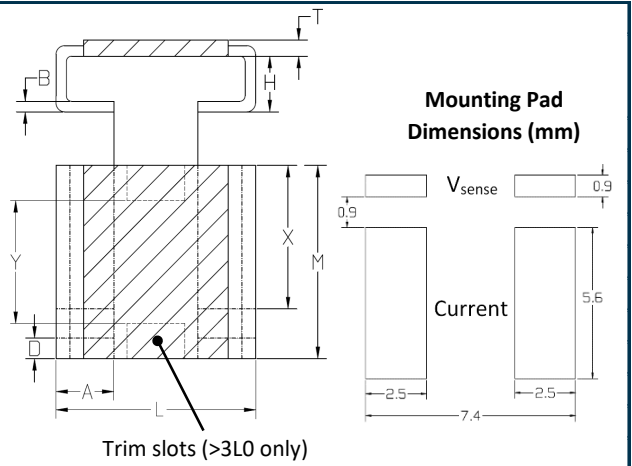
All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

## Electrical Data

|                                 |        | LRMAP2726   |     |     |     |     |     |          |     |     |     |     |
|---------------------------------|--------|-------------|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|
| Resistance value                | mΩ     | 0.2         | 0.3 | 0.5 | 0.3 | 0.5 | 0.7 | 1.0      | 2.0 | 3.0 | 4.0 | 5.0 |
| Power rating, P <sub>r100</sub> | W      | 5           |     |     |     |     |     |          | 4   | 3   | 2   | 2   |
| Alloy                           |        | E           |     |     | F   | B   |     |          | C   |     |     |     |
| TCR (resistive alloy)           | ppm/°C | ±10         |     |     | ±20 |     |     | -35 to 0 |     |     |     |     |
| TCR (resistor)                  | ppm/°C | ±50         | ±25 |     | ±50 |     |     |          |     |     |     |     |
| Resistance tolerance            | %      | ±1          |     |     |     |     |     |          |     |     |     |     |
| Inductance                      | nH     | <3          |     |     |     |     |     |          |     |     |     |     |
| Ambient temperature range       | °C     | -55 to +170 |     |     |     |     |     |          |     |     |     |     |

## Physical Data

| Dimensions in mm and weight in g |       |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
|----------------------------------|-------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|
| Value                            | Alloy | M<br>+0.35<br>-0.2 | L<br>±0.2 | H<br>±0.5 | X<br>±0.4 | D<br>nom. | A<br>±0.2 | B<br>±0.2 | Y<br>±0.5 | T<br>±0.1 | Wt.<br>nom. |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| L20                              | E     | 6.6                | 6.9       | 2.4       | 4.9       | 0.7       | 1.9       | 0.4       | N/A       | 1.42      | 0.58        |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| L30                              |       |                    |           |           |           |           |           |           |           | 0.80      | 0.41        |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| L50                              |       |                    |           |           |           |           |           |           |           | 0.45      | 0.31        |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| L30                              | F     |                    |           |           |           |           |           |           |           | 6.6       | 6.9         | 2.4 | 4.9 | 0.7 | 1.9 | 0.4 | N/A | 1.06 | 0.48 |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| L50                              |       |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     | 0.65 | 0.36 |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| L70                              |       |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     | 0.47 | 0.31 |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |
| 1L0                              | B     |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     | 6.6  | 6.9  | 2.4 | 4.9 | 0.7 | 1.9 | 0.4 | N/A | 0.35 | 0.28 |     |     |     |     |     |     |      |      |
| 2L0                              |       |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     |      |      |     |     |     |     |     |     | 0.50 | 0.3  |     |     |     |     |     |     |      |      |
| 3L0                              |       |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     |      |      |     |     |     |     |     |     | 0.34 | 0.26 |     |     |     |     |     |     |      |      |
| 4L0                              | C     |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     |      |      |     |     |     |     |     |     | 6.6  | 6.9  | 2.4 | 4.9 | 0.7 | 1.9 | 0.4 | N/A | 4.15 | 0.34 |
| 5L0                              |       |                    |           |           |           |           |           |           |           |           |             |     |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |     |     |     |     |     |     | 3.15 | 0.34 |



### Marking

The component is laser marked with ohmic value (using R to indicate decimal position in ohms) and tolerance.

### Solvent Resistance

The component is resistant to all normal industrial cleaning solvents suitable for printed circuits.

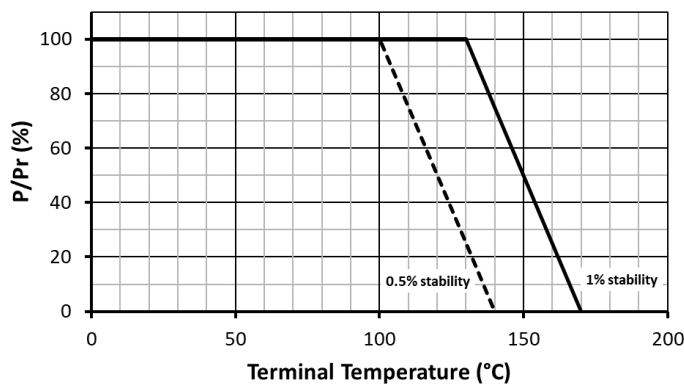
### Construction

The component is formed from a continuous band of E-beam welded precision resistive strip. Different resistance alloys are used based on the resistance value. The component is supplied without plating.

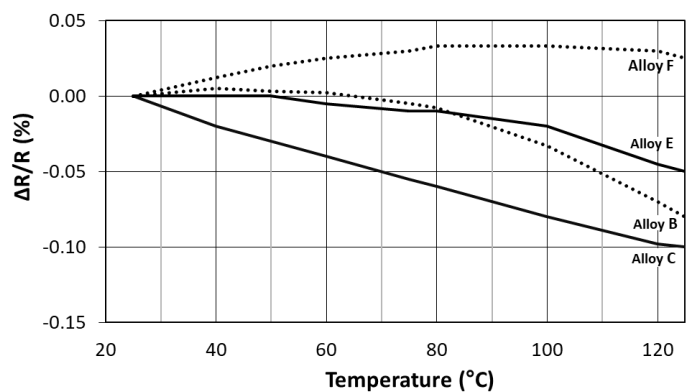
### Performance Data

| Test                      | Methods   | Reference              | $\Delta R$    |
|---------------------------|---|------------------------|---------------|
| Load life                 | 1000 hours, cyclic load at $T_A = 125^\circ\text{C}$ , rated power per Temperature Derating graph below | MIL-STD-202 Method 108 | $\pm 1\%$     |
| Short Term Overload       | $5 \times P_{r100}$ for 5 s   | --                     | $\pm 1\%$     |
| High Temperature Exposure | 1000 hours, $T_A = 170^\circ\text{C}$ , unpowered   | MIL-STD-202 Method 108 | $\pm 1\%$     |
| Low Temperature Storage   | $-65^\circ\text{C}$ for 24hrs   | --                     | $\pm 0.2\%$   |
| Temperature Cycle         | 1000 cycles, $-55^\circ\text{C}$ to $150^\circ\text{C}$ , 30 minutes dwell                              | JESD22 Method JA-104   | $\pm 0.5\%$   |
| Biased Humidity           | 1000 hours, $85^\circ\text{C}/85\%RH$ , 10% of $P_{r100}$   | MIL-STD-202 Method 103 | $\pm 0.5\%$   |
| Vibration                 | 10 - 2000Hz, 5g, 20min, 12 cycles/axis x 3 axes   | MIL-STD-202 Method 204 | $\pm 0.2\%$   |
| Mechanical Shock          | 100g, 6ms, half-sine  | MIL-STD-202 Method 213 | $\pm 0.2\%$   |
| Resistance to Solder Heat | $260 \pm 5^\circ\text{C}$ , $10 \pm 1\text{s}$  | MIL-STD-202 Method 210 | $\pm 0.5\%$   |
| Solderability             | $245 \pm 5^\circ\text{C}$ , $5 \pm 0.5\text{s}$   | J-STD-002              | >95% coverage |
| Resistance to Solvents    | Clean with aqueous chemical   | MIL-STD-202 Method 215 | No damage     |

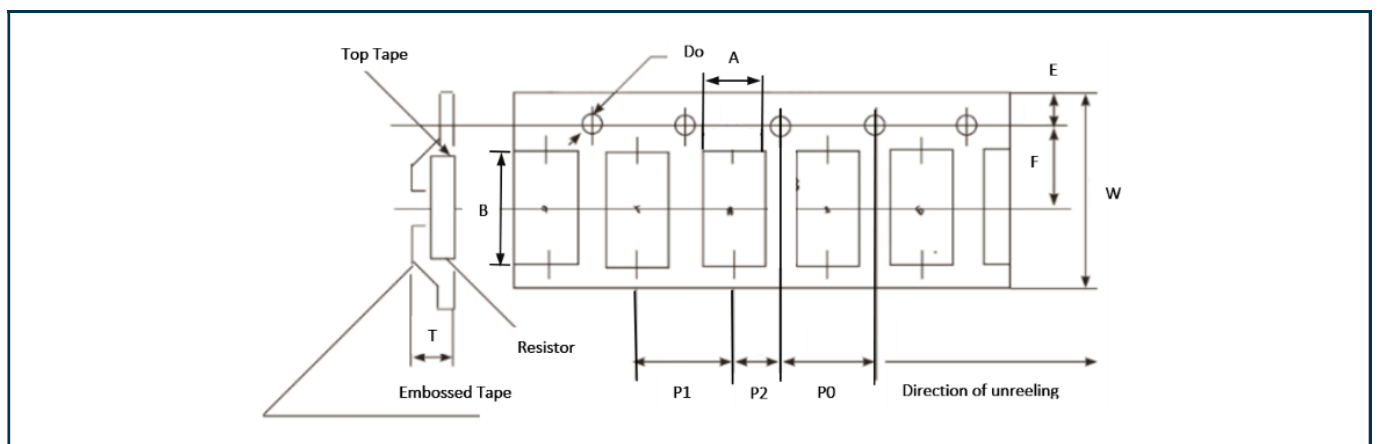
### Temperature Derating



### Typical Temperature Characteristic



### Packaging



All dimensions in mm (tolerances are  $\pm 0.1$  unless otherwise stated)

| Size | A               | B              | W  | E    | F   | $P_0$ | $P_1$ | $P_2$ | $D_0$ | T   | Reel dia. |
|------|-----------------|----------------|----|------|-----|-------|-------|-------|-------|-----|-----------|
| 2726 | $7.25 \pm 0.05$ | $7.3 \pm 0.05$ | 16 | 1.75 | 7.5 | 4     | 12    | 2     | 1.5   | 3.9 | 330       |

## LRMAP2726

### Ordering Procedure

Example: LRMAP2726B-1L0FT15 (1 milliohm  $\pm 1\%$ , Pb-free)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | R | M | A | P | 2 | 7 | 2 | 6 | B | - | 1 | L | 0 | F | T | 1 | 5 |
| 1 |   |   |   |   |   |   |   |   | 2 | 3 |   |   | 4 | 5 |   |   |   |

| 1<br>Type | 2<br>Alloy | 3<br>Value    | 4<br>Tolerance | 5<br>Packing                  |
|-----------|------------|---------------|----------------|-------------------------------|
| LRMAP2726 | B          | 3 characters  | F = $\pm 1\%$  | T15 = plastic tape, 1500/reel |
|           | C          | L = milliohms |                |                               |
|           | E          |               |                |                               |
|           | F          |               |                |                               |

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