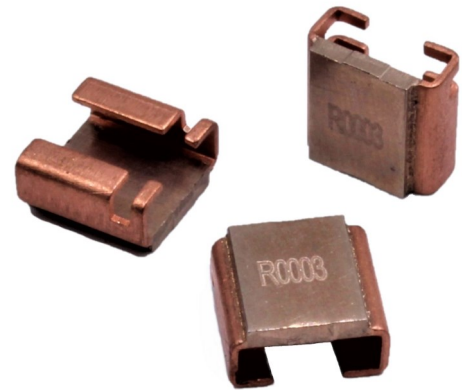


LRMAP2726

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 _{r100}	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 +0.35 -0.2	L ±0.2	H ±0.5	X ±0.4	D nom.	A ±0.2	B ±0.2	Y ±0.5	T ±0.1	Wt. 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									1.06	0.48	
L50										0.65	0.36	
L70	B									0.47	0.31	
1L0										0.35	0.28	
2L0	C									0.50	0.3	
3L0										0.34	0.26	
4L0										4.15	0.34	0.26
5L0										3.15	0.34	0.26

Trim slots (>3L0 only)

Mounting Pad Dimensions (mm)

V_{sense} 0.9

Current 5.6

2.5 7.4

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.

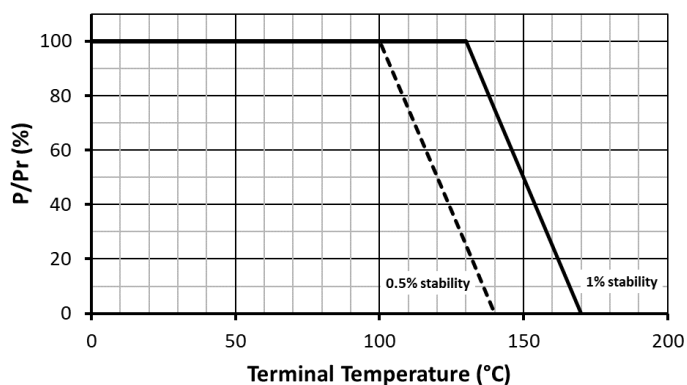
Construction

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.

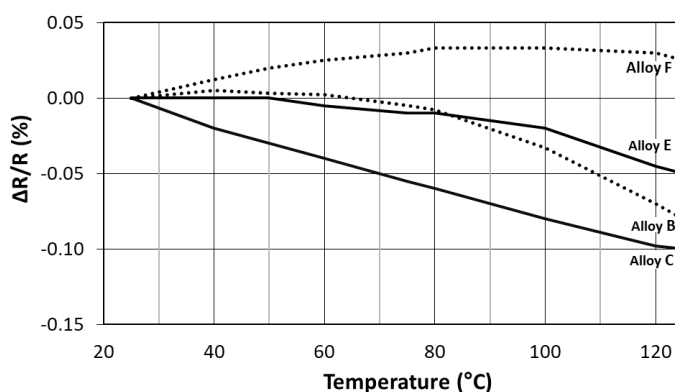
Performance Data

Test	Methods	Reference	ΔR
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°C for 24hrs	--	$\pm 0.2\%$
Temperature Cycle	1000 cycles, -55°C to 150°C , 30 minutes dwell	JESD22 Method JA-104	$\pm 0.5\%$
Biased Humidity	1000 hours, $85^\circ\text{C}/85\%\text{RH}$, 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

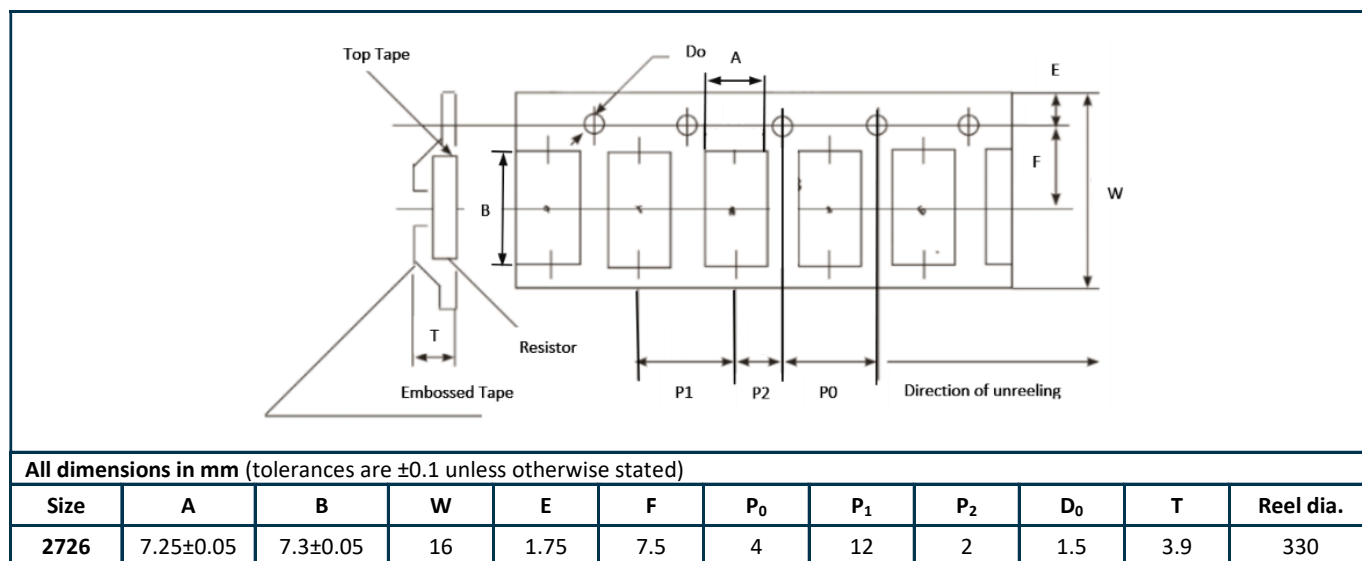
Temperature Derating



Typical Temperature Characteristic



Packaging



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

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