

- High Voltage Resistors in thick film technology
- $1M\Omega$  to  $10T\Omega$  Resistance range
- Low Values of TCR and VCR
- Non-Magnetic
- Conformal coating as standard
- Silicone coating available for climatic protection
- Radial, Axial, SIL (Single-in-line) Type Lead options
- Glass or Silicone passivation of resistive element (one side, no conformal coat)

(e3) **R** TUV

Unleaded version with solder pads available (with glass or Silicone passivation only, no conformal coating)

recillical Data			Table I	
Size		LXP 25	LXP 50	
Power rating P <sub>70</sub> (W) ( P <sub>125</sub> = 0W)		1.0W	3.0W	
Operating voltage U_, U <sub>eff</sub> <sup>1</sup>		15kV	30kV	
Resistance / Tolerance % / Tem	perature Coefficient (TC	R) ppm°C³ / (VCR) ppm <sup>4</sup>	(Closer resistance tolerances, TCR & VCR on request & by agreement)	
	± %	0.25, 0.5, 1, 2, 5, 10, 20	0.25, 0.5, 1, 2, 5, 10, 20	
1M - 100M	ppm/°C	25, 50, 100	25, 50, 100	
	ppm/V	1	1	
	%	0.25, 0.5, 1, 2, 5, 10, 20	0.25, 0.5, 1, 2, 5, 10, 20	
>100M - 300M	ppm/°C	25, 50, 100	25, 50, 100	
	ppm/V	2	1	
	%	1, 2, 5, 10, 20	1, 2, 5, 10, 20	
>300M - 1G	ppm/°C	25, 50, 100	25, 50, 100	
	ppm/V	2	1	
	%	5, 10, 20, 30	5, 10, 20, 30	
>1G - 100G	ppm/°C	100, 250	50, 100	
	ppm/V	10	5	
	%	5, 10, 20, 30	5, 10, 20, 30	
>100G - 1T	ppm/°C	250, 500	100. 250	
	ppm/V	50	25	
	%	10, 20, 30	10, 20, 30	
>1T - 3T	ppm/°C	On request	On request	
	ppm/V	On request	On request	
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10, 20, 30

On request

On request

ppm/°C

ppm/V



10, 20, 30

On request

On request

> 3T - 10T

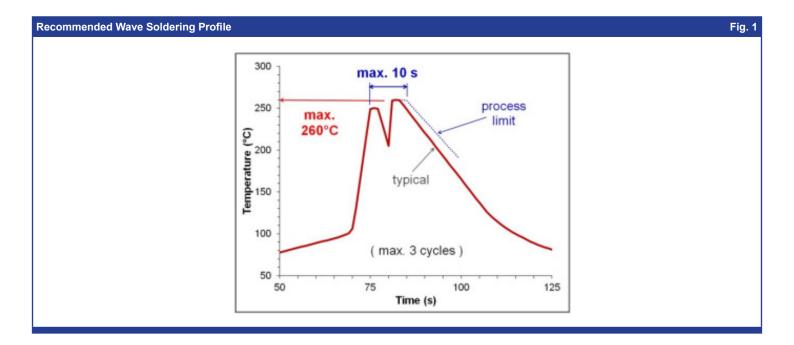
<sup>1)</sup> Continuous operating voltage (U\_, Ueff):  $V \le \sqrt{(P^*R)}$  or max. working voltage (the lower value)

<sup>2)</sup> Temp. coefficient TCR: in ppm/°C; +25°C to +125°C; TCR lower than standard TCR (highest value) or R >100G: +25°C to +85°C

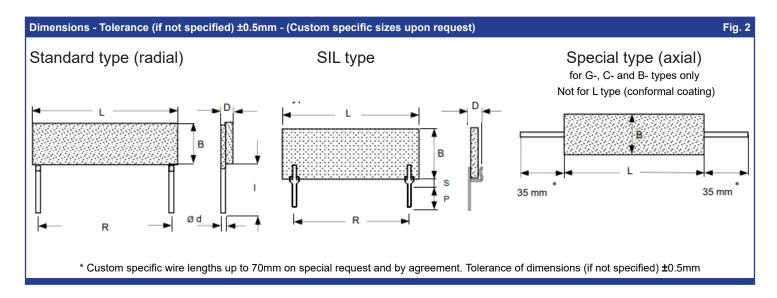
<sup>3)</sup> VCR: typical values, all negative, not for all temperature coefficient values available

Technical Data - General <sup>2</sup>			
Operating temperature range	-55°C to +150°C		
Climatic category acc. to IEC 60068-1	55/150/56		
Environmental protection of the resistor element	Silicone conformal coating, Silicone passivation or Glass passivation		
Solderability acc. to IEC 60068-2-20	245°C, 3s		
Max. soldering temperature	260°C, 10s (maximum 3 cycles)		

<sup>&</sup>lt;sup>4</sup> The silicone coating is resistant to most solvents. For cleaning the use of ispropyl alcohol (IPA) is recommended. The use of acetone and methylene chloride is not allowed. Mechanical stress to coating should be avoided and high pressure cleaning should not be used. Some cleaning agents can cause discolourations or bleaching to the surface without any influence on the resistor element. The thickness of the coating is not specific. Other data according to EN 140401-802 (CECC 40401-802).



Dimensions (mm)						
Size	L (Length)	B (Width)	R (Pitch)			
LXP 25	25.0	9.0	22.9			
LXP 50	50.0	12.5	47.8			



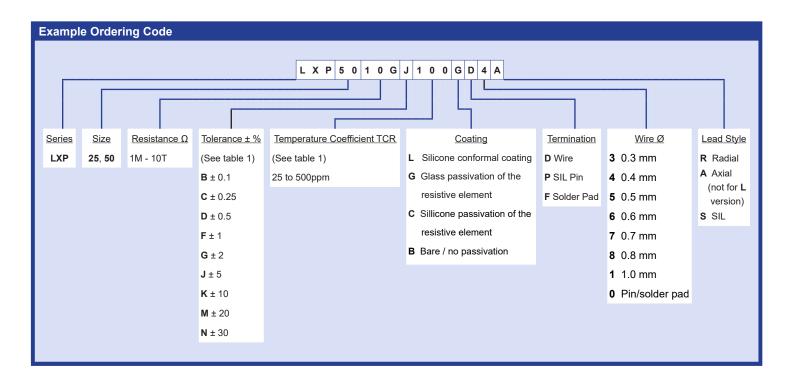
Specifications are subject to change without notice. E&OE



## **LXP Series**

Material	Material Table						
Cu / Surface finish: 100% Sn							
	In Sto Wire diameter (standard)	ck	d	0.40 ±0.05 mm			
	New	ew	d	0.60 ±0.05 mm			
Wire leads	Applicable wire diameter		d	0.3; 0.4; 0.5; 0.6; 0.7; 0.8; 1.0 mm			
	Thickness		D max.	1.3 mm + d			
	Wire length (standard)	ck	I	20 +0/-2 mm			
	Wire length (standard)	ew	I	20 +0/-2 mm			
	Wire length - axial (standard)		I	35 +0/-2 mm			
CuSn6 (2.1020) / Surface finish: 100% Sn							
SIL-Pin	Stand off		S	1 ±0.4 mm			
	Pin length		Р	9 ±1 mm			
	Pin cross section		Α	0.5 * 0.25 mm <sup>2</sup>			
	Thickness		D max.	2mm			

Packaging	
Cardboard boxes with foam spacer (small amounts; bulk in plastic bags or cardboard boxes)	
Labeling is made at the packing unit only.	
Components are not marked (only on request for individual cases).	
Contact Durakool for minimum quantities	



NB: Standard TCR will be the highest value in the table unless otherwise requested. Measuring voltage will be 10V, (50V for values >1G). Other voltages are available - specific requirements must be requested.

Standard versions are LD4R and LD6R (Silicone coating: 0.4mm / 0.6mm wire; radial).

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