

**Power Shunt Resistors**  
**Axial, low inductance and low ohmic,**  
**Ceramic case**



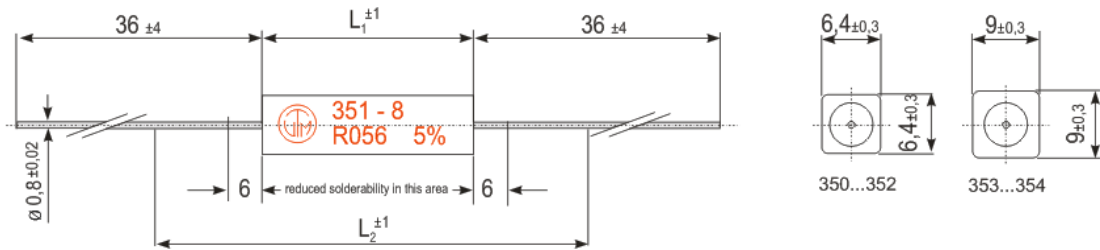
## ELECTRICAL SPECIFICATIONS

Type		KN350-8	KN351-8	KN352-8	KN353-8	KN354-8
<u>Nominal Power rating</u> P <sub>70</sub>	[W]	See next page				
<u>Resistance range</u>	[Ω] Min	0R003	0R004	0R005	0R004	0R005
	Max	0R051	0R068	0R1	0R068	0R1
<u>E-Series</u>		E24 >0R01				
<u>Tolerances</u>	± [%]	1, 2, 3, 5				
<u>Temperature coefficient</u>	[10 <sup>-6</sup> *K <sup>-1</sup> ]	+ 200 ... + 1200 Depends on value				
<u>Temperature range</u>	[°C]	-55 ... +250				
<u>Thermal resistance</u>	[KW <sup>-1</sup> ]	65	50	38	35	30
<u>Dielectric withstanding voltage</u> IEC115-1 clause 4.7 (1[ <i>min</i> ])	[V]	2000				
<u>Insulation resistance</u>	[MΩ]	> 10 <sup>4</sup>				
<u>Max. working voltage</u>	[V] <sub>RMS</sub>	$\sqrt{P_{70} * R}$				

## PERFORMANCE DATA

<u>Derating linear</u>	[°C]	70...250 (0W)				
<u>Climatic category</u>		55/200/56				
<u>Failure Rate</u> (Total, $\theta_o$ , max, 60% cont. lev.)	[10 <sup>-9</sup> h <sup>-1</sup> ]	appr. 10 depends on value				
<u>Endurance</u> IEC60115-1 clause 4.25 (P <sub>70</sub> , @ 70[°C], 1000[h])	± [%]	3,0				
<u>Damp heat, steady state</u> IEC115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])	± [%]	0,5				
<u>Climatic sequence</u> IEC115-1 clause 4.23	± [%]	0,5				
<u>Terminal strength</u>	± [%]	0,5				
<u>Terminal Tensile Strength</u>	[N]	min. 25				
<u>Resistance to soldering heat</u> IEC115-1 clause 4.18 (260 <sup>±5</sup> [°C], 3,5 <sup>±1</sup> [s])	± [%]	± 0,2				
<u>Solderability</u> IEC 60068-2-20-T (245 <sup>±5</sup> [°C], 3 <sup>±0,5</sup> [s])		Solder bath method (> 95% coverage)				
<u>Marking</u> IEC60062		Printed in clear				

DIMENSIONS [mm]



	KN350-8	KN351-8	KN352-8	KN353-8	KN354-8
L1	18	25	38	25	38
L2	40	45	60	45	60

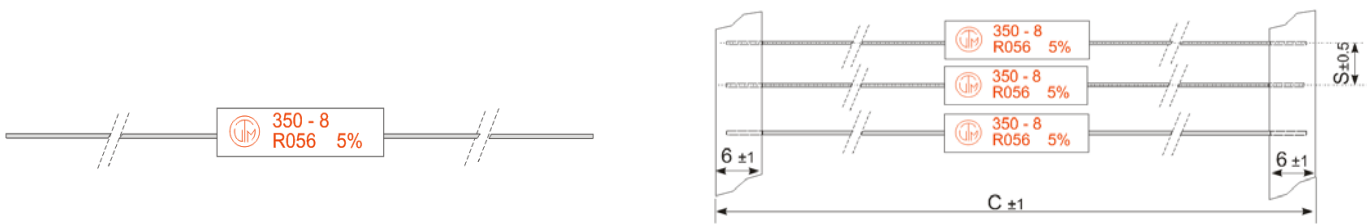
Measuring length L<sub>2</sub>: Resistance value is measured over the centered length L<sub>2</sub> on terminals free of oxide and contaminations. Differing conditions require adequate corrections (R<sub>terminal</sub> = 0,4 mΩ/cm).

ELECTRICAL PERFORMANCE

Type	Nominal Power rating [W]	
	Resistance value	Rated power [W] P <sub>70°C</sub>
KN350-8	0R003	4,5
	0R004 ... 0R051	5
KN351-8	0R004 ... 0R068	6
KN352-8	0R005 ... 0R1	8
KN353-8	0R004 ... 0R068	8
KN354-8	0R005 ... 0R1	10

PACKAGING

The standard packaging for KN in axial type is bulk, dimensions below.



Type	Packaging	Pieces	Pack. Code
KN350	Bulk	200	B
KN351		200	
KN352		200	
KN353		200	
KN354		200	

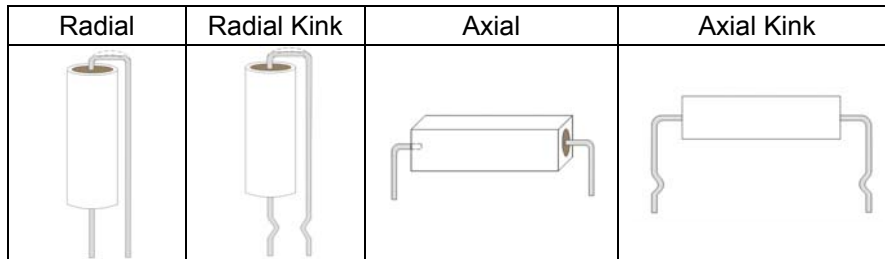
Type	Packaging	Pieces	Pack. Code	C	S
KN350	Taped in Reel	1000	R	85	10
KN351		1000		95	10
KN352		1000		95	10
KN353		500		95	10
KN354		500		95	10

**ALTERNATIVE LEAD CONFIGURATIONS**

This type KN, is also available in a different pre-forming, as shown below, other's upon request.

**THROUGH HOLE VERSION**

\*For horizontal and vertical pre-forming please consult your local sales contact.



**ORDERING EXAMPLE**

<b>KN351-8</b>	<b>5</b>	<b>B</b>	<b>0R056</b>
<i>Type</i>	<i>Tolerance</i>	<i>Pack-Code</i>	<i>R-Value</i>