



# Series WLL-320

Due to our Non-Inductive design, the WLL series is ideally suited for high-frequency and pulse-loading applications. Through direct mounting on a heat sink, significant cost advantage can be realized. Main applications are: variable speed drives, power supplies, control devices, telecommunications, robotics, motor controls and other switching devices.

## Features

- multiple resistors in 1 package
- Non-Inductive design
- ROHS compliant
- Materials in accordance with UL 94 V-0



## Technical Specification

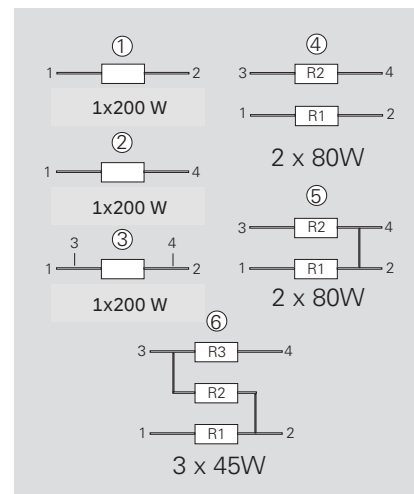
<b>Resistance value</b>	0.1 Ω ≤ 1 MΩ
<b>Resistance tolerance</b>	±1 % to ±10 %
<b>Temperature coefficient</b>	> 1R: ±250 ppm/°C (at +85°C ref. to +25°C) lower TCR on special request for limited ohmic values
<b>Power rating</b>	300 W at 25°C bottom case temperature 200 W at 85°C bottom case temperature
<b>Short time overload</b>	1.25x rated power at 85°C bottom case temperature for 10 sec., ΔR = 0.4% max. (for conf. 1, 2 and 3)
<b>Maximum working voltage</b>	500 V (up to 1,000 V on special request = "S"-version)
<b>Partial discharge</b>	up to 2,000 Vrms / 80pC (only on special request)
<b>Voltage proof</b>	dielectric strength up to 3,000 V DC against ground
<b>Insulation resistance</b>	> 10 GΩ at 1,000 V DC
<b>Isolation voltage between R1 &amp; R2 &amp; R3</b>	500 V DC (1,000 V DC on special request)
<b>Comparative Tracking Index (CTI)</b>	standard > 600 V
<b>Heat resistance to cooling plate</b>	Rth < 0.35 K/W
<b>Capacitance/mass</b>	45 pF (typical), measuring frequency 10 kHz
<b>Serial inductivity</b>	WLL-320 typical 40 nH, measuring frequency 10 kHz
<b>Working temperature range</b>	-55°C to +155°C
<b>Mounting - torque for base plate (static)</b>	1.3 Nm to 1.5 Nm M4 screws
<b>Weight</b>	~22 g (depending on type)

## How to make a request

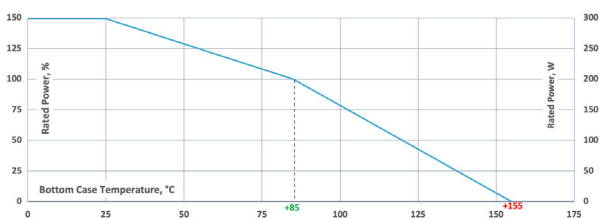
WLL-320\_Ohmic Value\_Tolerance

For example:  
WLL-320 1R 10%

## Configurations (P / package)



Version 5: ohmic value between contact 2 and 4 approx. 3mΩ



Derating (thermal resist.) WLL-320:  
2.86 W/K (0.35 K/W) (for conf. 1, 2 and 3)

Best results can be reached by using a thermal transfer compound with a heat conductivity of at least 1 W/mK. The flatness of the cooling plate must be better than 0.05 mm overall. Surface roughness should not exceed 6.4 μm.

The above spec. sheet features our standard products. For further options please contact your local Miba Resistors representative.

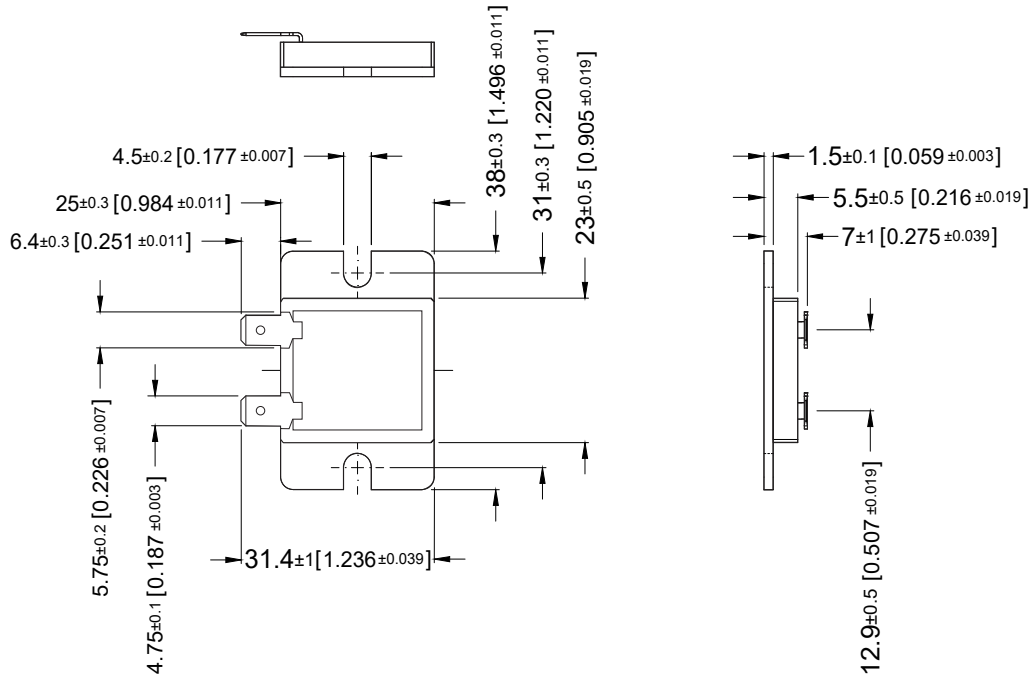
sales.mra@miba.com · US: sales@mibaresistors.com

Miba Resistors former

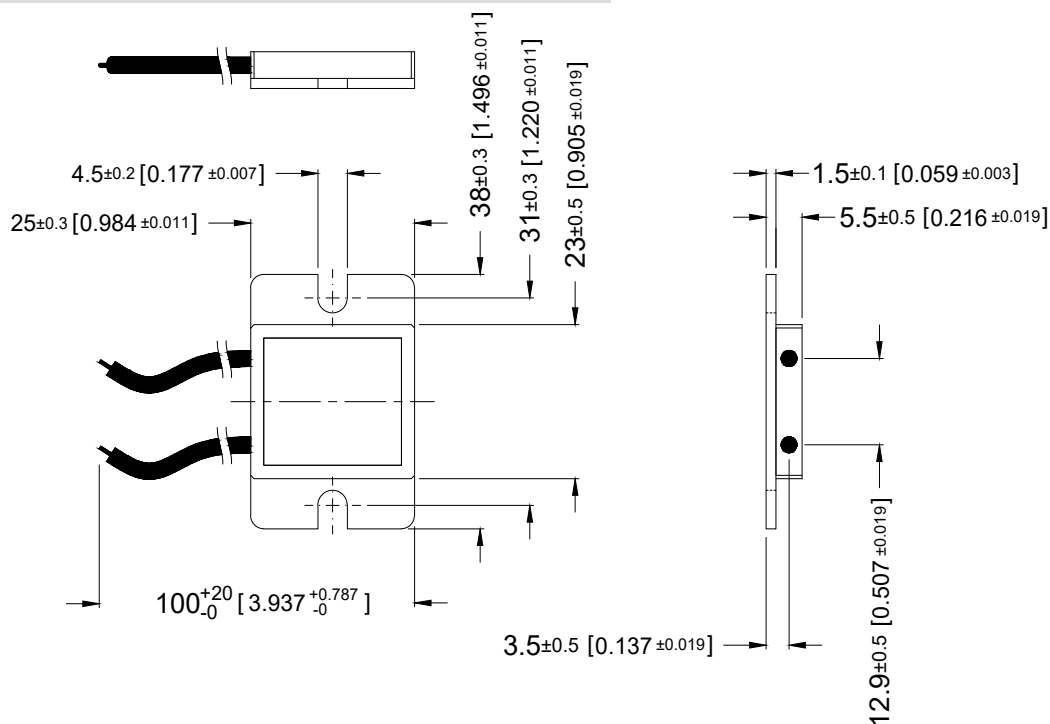


# Series WLL-320

**Standard fast-on connection**  
dimensions in mm [inches]



**WLL-C (cable connection)**  
dimensions in mm [inches] only possible for configuration 1  
(standard cable length = 100mm, others on special request)





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