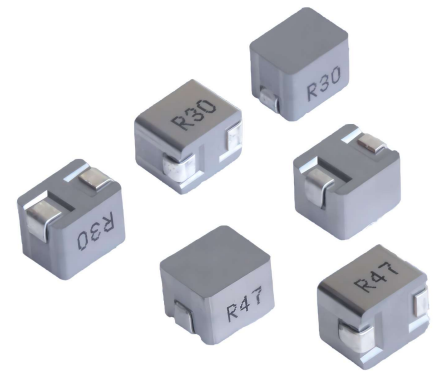


## High Current Power Bead Inductors AWIM-R Series

### Product features

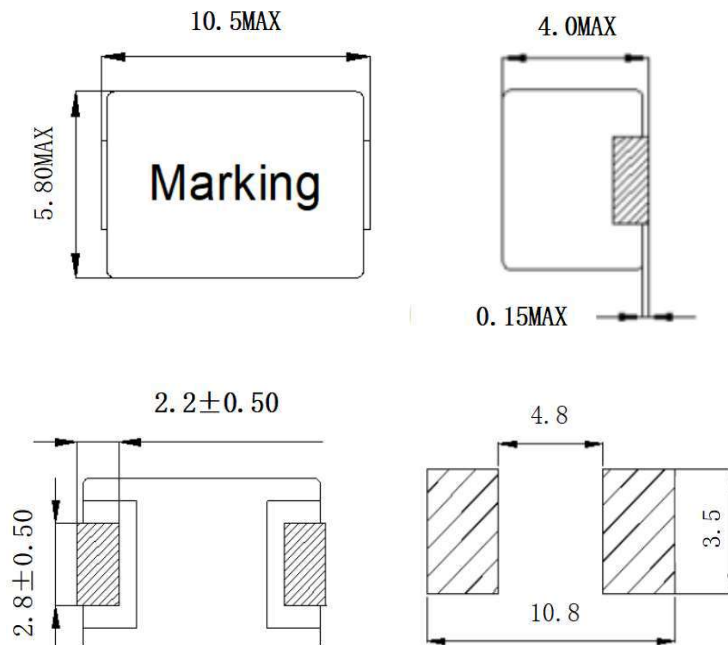
- DC-DC converter work frequency up to 5MHz
- Soft saturation. Low EMI.
- High current, low DCR, high efficiency.
- Current range from 30A to 125A
- Inductance range from 0.10 $\mu$ H to 0.47 $\mu$ H.
- High reliability.
- 100% Lead (Pb)-Free and RoHS compliant.
- Operating temperature -55~+125 $^{\circ}$ C (Including self - temperature rise)



### Applications

- CPU/FPGA/GPU
- High current ASICs
- Voltage Regulator Modules (VRMs)
- Data centers and servers, Networking systems and graphic cards.

### Dimensions (mm) AWIM-105804C<sup>7</sup>



Recommend Land Pattern Unit: mm

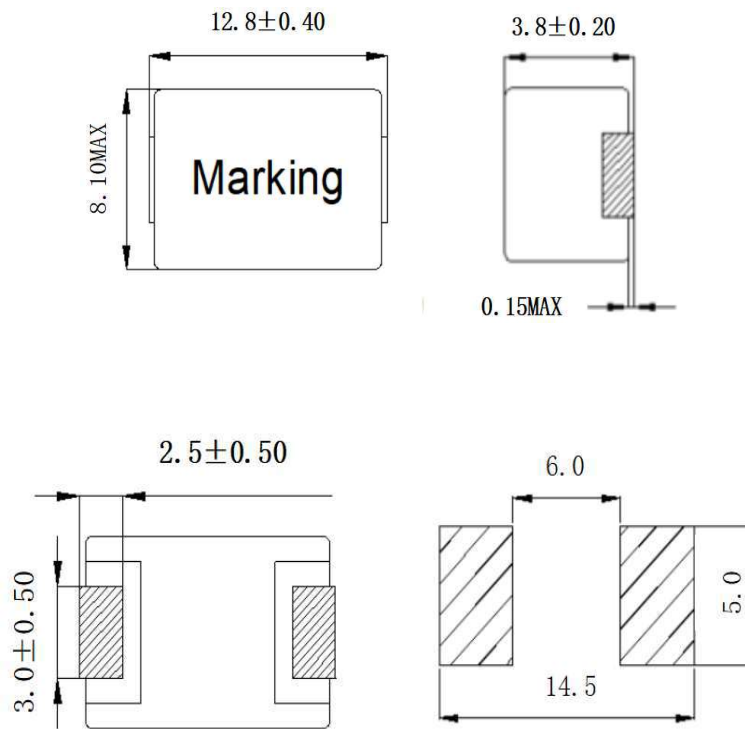
Specifications AWIM-105804C<sup>7</sup>

Part Number	Inductance <sup>2</sup> ±20% (μH)	I <sub>rms</sub> <sup>3</sup> (A)	I <sub>sat</sub> <sup>4</sup> (A)	DCR MAX (mΩ)
AWIM105804-R10S1MTF	0.10	45.00	120.00	0.60±7%
AWIM105804-R15S1MTF	0.15	45.00	100.00	0.60±7%

Notes:

1. All test data is reference to 25°C ambient.
2. Test Condition:100KHz,1.0Vrms.
3. I<sub>dc</sub>: DC current (A) that will cause an approximate ΔT of 40°C
4. I<sub>sat</sub> : DC current (A) that will cause L0 to drop approximately 30%
5. Operate between temperature range -55°C to +125°C
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component. PWB trace size and thickness, airflow and other cooling procession all affect the part temperature. Part temperature should be verified in the den application.
7. C-Carbonyl alloy + Coating

Dimensions (mm) AWIM-1284C<sup>7</sup>

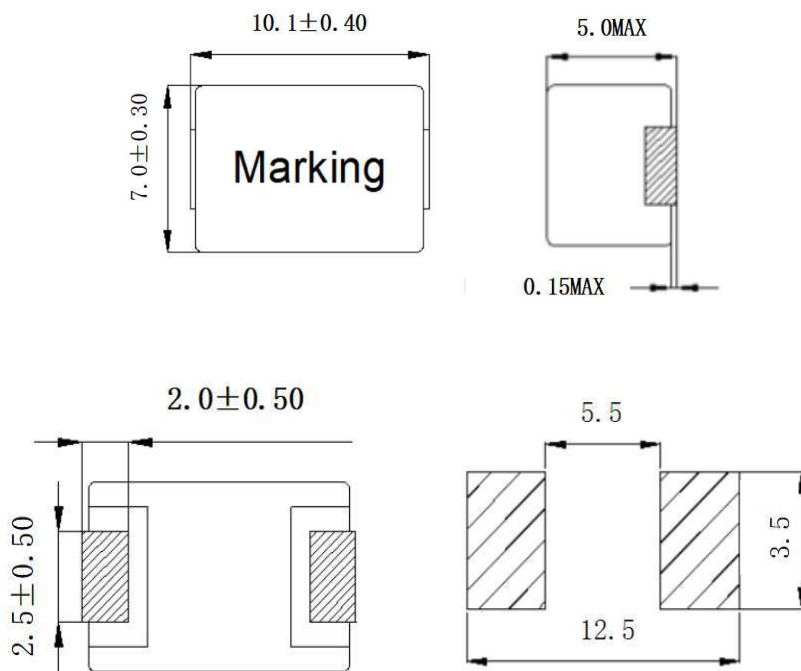


Recommend Land Pattern Unit: mm

Specifications AWIM-1284C<sup>7</sup>

Part Number	Inductance <sup>2</sup> $\pm 20\%$ ( $\mu\text{H}$ )	I <sub>rms</sub> <sup>3</sup> (A)	I <sub>sat</sub> <sup>4</sup> (A)	DCR MAX (m $\Omega$ )
AWIM1284-R15S1MTF	0.15	50.00	100.00	0.40 $\pm 10\%$
AWIM1284-R18S1MTF	0.18	45.00	100.00	0.50 $\pm 10\%$
AWIM1284-R22S1MTF	0.22	45.00	80.00	0.48 $\pm 10\%$
AWIM1284-R47S1MTF	0.47	35.00	60.00	1.18 $\pm 10\%$

Dimensions (mm) AWIM-1075

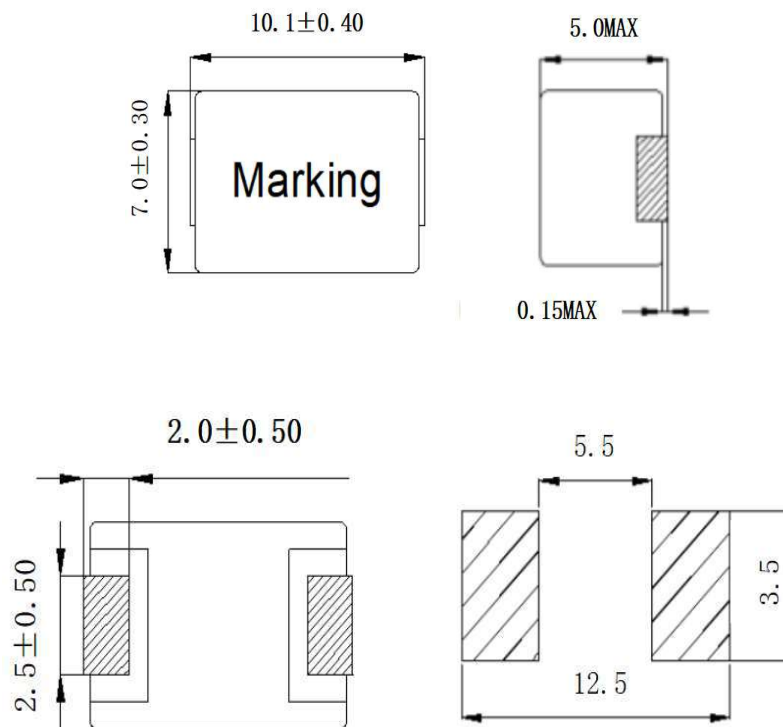


Recommend Land Pattern Unit: mm

Specifications AWIM-1075

Part Number	Inductance <sup>2</sup> $\pm 20\%$ ( $\mu\text{H}$ )	I <sub>rms</sub> <sup>3</sup> (A)	I <sub>sat</sub> <sup>4</sup> (A)	DCR MAX (m $\Omega$ )
AWIM1075-R15MTF	0.15	35.00	45.00	0.58 $\pm 10\%$
AWIM1075-R22MTF	0.22	35.00	45.00	0.58 $\pm 10\%$

Dimensions (mm) AWIM-1075C<sup>7</sup>

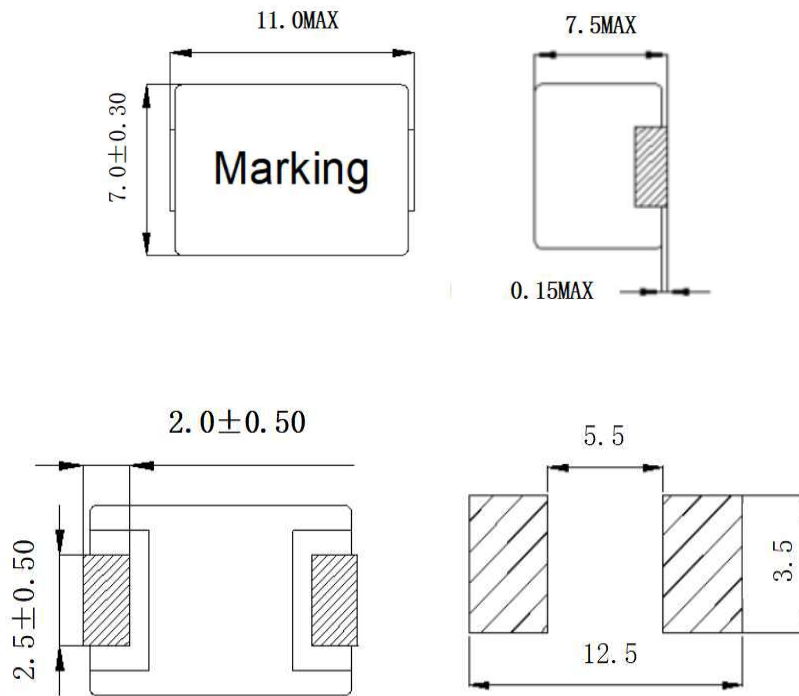


Recommend Land Pattern Unit: mm

Specifications AWIM-1075C

Part Number	Inductance <sup>2</sup> $\pm 20\%$ ( $\mu\text{H}$ )	I <sub>rms</sub> <sup>3</sup> (A)	I <sub>sat</sub> <sup>4</sup> (A)	DCR MAX (m $\Omega$ )
AWIM1075-R15S1MTF	0.15	42.00	90.00	$0.58 \pm 5\%$
AWIM1075-R15S1MTF-0R46	0.15	45.00	95.00	$0.46 \pm 10\%$
AWIM1075-R15S1MTF-0R37	0.15	55.00	110.00	$0.376 \pm 5\%$
AWIM1075-R22S1MTF	0.22	40.00	70.00	$0.55 \pm 5\%$
AWIM1075-R30S1MTF	0.30	36.00	75.00	$0.82 \pm 10\%$
AWIM1075-R33S1MTF	0.33	35.00	60.00	$0.85 \pm 5\%$
AWIM1075-R47S1MTF	0.47	30.00	50.00	$1.05 \pm 10\%$

Dimensions (mm) AWIM-107075

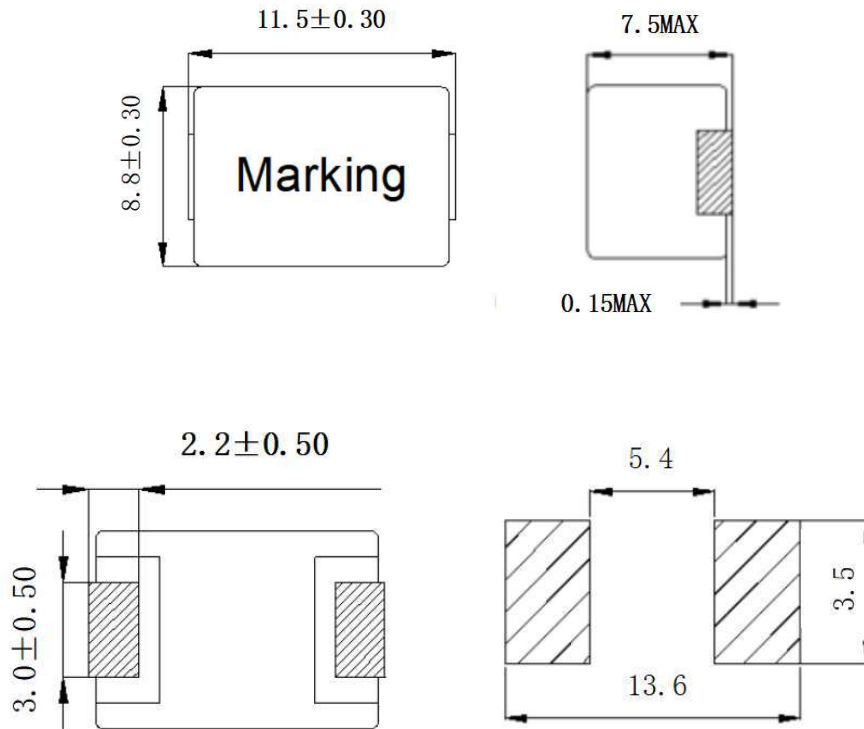


Recommend Land Pattern Unit: mm

Specifications AWIM-107075

Part Number	Inductance <sup>2</sup> ±20% (μH)	I <sub>rms</sub> <sup>3</sup> (A)	I <sub>sat</sub> <sup>4</sup> (A)	DCR MAX (mΩ)
AWIM107075-R10MTF	0.10	45.0	100.0	0.48±10%
AWIM107075-R15MTF	0.15	42.0	70.0	0.50±10%
AWIM107075-R22MTF	0.22	42.0	55.0	0.55±10%
AWIM107075-R30MTF	0.30	35.0	45.0	0.82±10%

Dimensions (mm) AWIM-108775



Recommend Land Pattern Unit: mm

Specifications AWIM-108775

Part Number	Inductance <sup>2</sup> $\pm 20\%$ ( $\mu\text{H}$ )	I <sub>rms</sub> <sup>3</sup> (A)	I <sub>sat</sub> <sup>4</sup> (A)	DCR MAX (m $\Omega$ )
AWIM108775-R15MTF	0.15	50.00	100.00	0.40 $\pm 10\%$
AWIM108775-R22MTF	0.22	45.00	70.00	0.45 $\pm 10\%$
AWIM108775-R33MTF	0.33	42.00	52.00	0.68 $\pm 10\%$
AWIM108775-R40MTF	0.40	40.00	50.00	0.71 $\pm 10\%$
AWIM108775-R47MTF	0.47	38.00	46.00	0.78 $\pm 10\%$