

Models Available

Remark: View this 3D model by opening this Doc. With Adobe Acrobat or Reader in computer (Recommended)

Features

- SMD inductors
- · High current and lower DCR
- Ferrite core material
- Operating temperature range: -40 to +125°C (including self-temperature rise)
- Shielded construction

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
 - Server and desktop
 - Central processing unit (CPU)
 - Graphics processing unit (GPU)
 - Specific integrated circuit (ASIC)
 - · High power density
- · Notebook regulators
- · Battery power systems
- · Graphics cards

Environmental Data

• Storage Conditions (In Original Packaging): <40°C; <75%RH

• Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)

• Solder reflow temperature: J-STD-020D compliant

• Moisture Sensitivity Level (MSL): 1

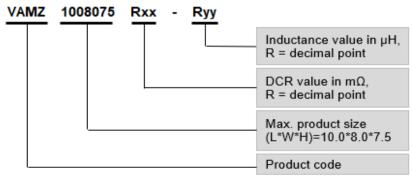
Product Specifications

Part Number ⁵	OCL ¹ (nH) ±15%	Irms² (Amps)	Isat ³ (Amps)	Height (max.)	DCR(mΩ) typical @ +20 °C
VAMZ1008075R29-R15	150	56	73	7.5	0.29
VAMZ1008075R29-R19	190	56	60	7.5	0.29
VAMZ1008075R29-R26	260	56	44	7.5	0.29
VAMZ1008075R29-R34	340	56	34	7.5	0.29
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Notes:

- 1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 0.1 Vrms, 0.0 Adc, +25 °C
- 2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end
- application.
- 3. Isat: Peak current for approximately 20% (R15 10%) rolloff @+25 °C (R15 10%)
- 4. Measurement Equipment: WK3260B+WK3265B

5. Part Number Definition:



& Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. Doc No.: TD-RD-002







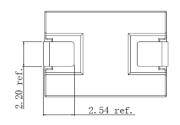


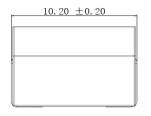
echnical Data

VAMZ1008XXXR29

Dimensions:[mm]









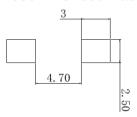
Product Marking:

Part Code	
Date Code	YYWW

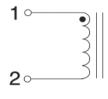
Table

Part Number	Max. Height
VAMZ1008075R29 Type	7.5

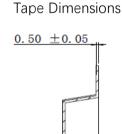
Recommended Pad Layout:[mm]

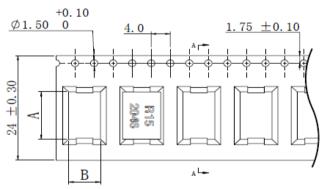


Schematic:

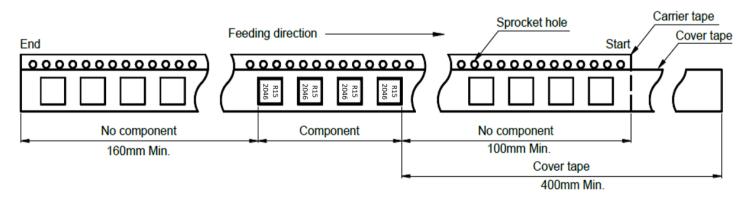


Packaging Information:[mm]





Part Number	А	В	K
VAMZ1008075R29 Type	10.8±0.1	8.0±0.1	7.7±0.1



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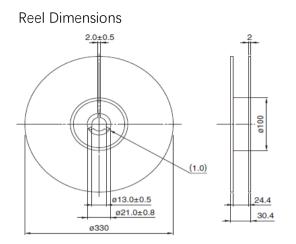




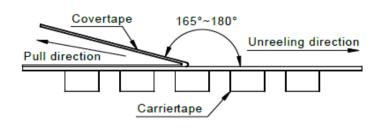


nnical Data

VAMZ1008XXXR29







Packing Quantity

Part Number	Quantity (pcs/reel)	
VAMZ1008075R29 Type	700	

Recommended Reflow Profile:

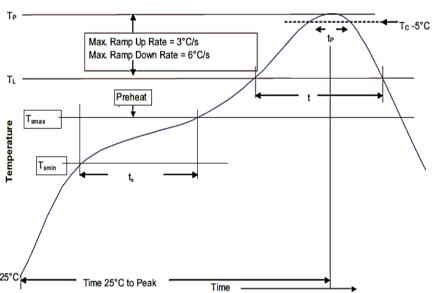


Table 6	1 - Standard	C. DL	Caldan	/T \
lable	ı - Standard	1 20170	Solder	Ucl

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm)	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (Tc)

Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

Profile Feature	Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak ◆ Temperature min. (T _{smin})	100°C	150°C
• Temperature max. (T _{smax})	150°C	200°C
• Time (T _{smin} to T _{smax}) (t _s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T _{Smax} to T _p	3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (TL) Time at liquidous (t _L)	183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (Tp)*	Table 1	Table 2
Time (t _p)** within 5 °C of the specified classification temperature (T _C)	20 Seconds**	30 Seconds**
Average ramp-down rate (Tp to Tsmax)	6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature	6 Minutes Max.	8 Minutes Max.

^{*} Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

^{**} Tolerance for time at peak profile temperature (tp) is defined as a supplier minimum and a user maximum.

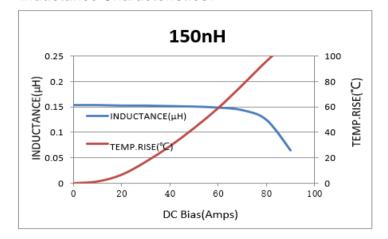
RoHS

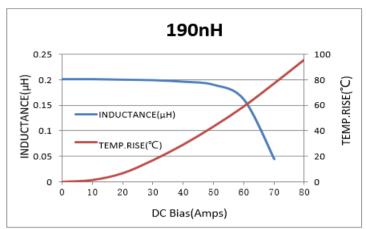


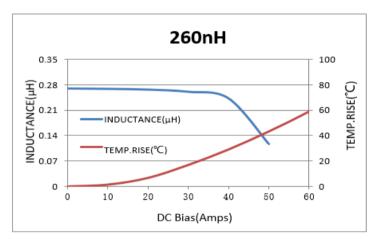


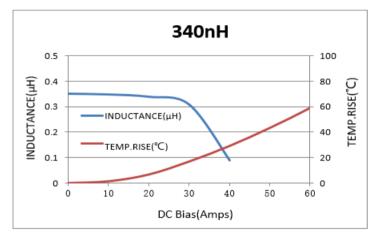


Inductance Characteristics:









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nical Data

VAMZ1008X)

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