

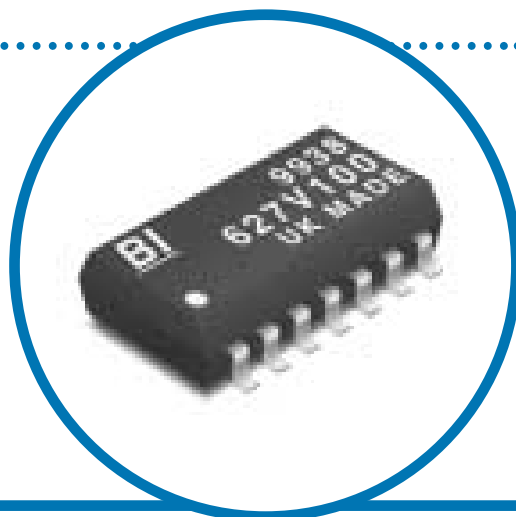
# MODEL 627 V100

Model 627 V100 Series

**Designed For Pentium® Power Supply  
Surface Mount Resistor Networks**

## Applications

- **Designed for P54C, P54C-VR and P54C-VRE Pentium® Processors when used in conjunction with Linear Technology Models LT 1266/1267 or LT 1584/1585 voltage regulator IC's.**



## Electrical

Standard Resistance Tolerance, at 25°C	±2%
Operating Temperature Range	-55°C to +125°C
Temperature Coefficient of Resistance	±100ppm/°C
Temperature Coefficient of Resistance Tracking	50ppm/°C
Voltage Coefficient of Resistance	±100ppm/V
Maximum Operating Voltage	25Vdc
Insulation Resistance, Minimum	10,000 Megohms

## Environmental

Thermal Shock plus Power Conditioning	ΔR 0.70%
Short Time Overload	ΔR 0.25%
Moisture Resistance	ΔR 0.50%
Mechanical Shock	ΔR 0.25%
Vibration Shock	ΔR 0.25%
Low Temperature Operation	ΔR 0.25%
High Temperature Exposure	ΔR 0.50%
Load Life, 2,000 Hours (≤33 Ohms = ±0.5 Ohm)	ΔR 0.50%
Resistance to Solder Heat	ΔR 0.25%
Dielectric Withstanding Voltage	200V for 1 minute
Temperature Exposure, Maximum	215°C for 3 minutes
Marking Permanency	MIL-STD-202, Method 215
Lead Solderability	MIL-STD-202, Method 208
Flammability	UL-94V-0 Rated
Storage Temperature Range	-55°C to +150°C

Specifications subject to change without notice.  
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### General Note

TT electronics reserves the right to make changes in product specification without notice or liability.  
All information is subject to TT electronics' own data and is considered accurate at time of going to print.

Mechanical

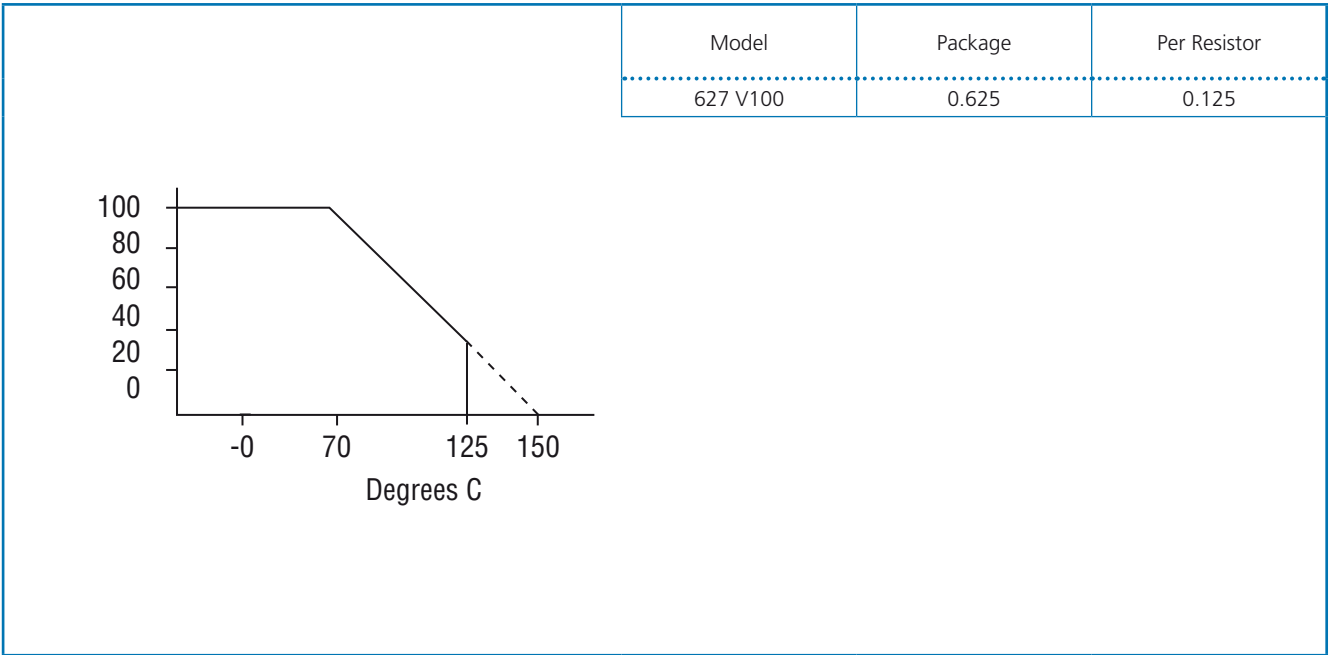
Lead Material	Copper Alloy, 96Sn, 4Ag
Lead Configuration	Gull Wing
Lead Coplanarity	±0.002 in. (0.057mm)
Substrate Material	Alumina
Resistor Material	Cermet
Body Material	Epoxy

Matching (Voltage Rating)

$\frac{V2}{V1}$	= 2.174±1% (Sets LTC1266 VFB = 1.150V±1%)
$\frac{V3}{V2}$	= 1.320±1% (Sets 3.300V±1% for P54C)
$\frac{V4}{V2}$	= 1.353±0.5% (Sets 3.383V±0.5% for P54C-VR)
$\frac{V5}{V2}$	= 1.410±0.25% (Sets 3.525V±0.25% for P54C-VRE)

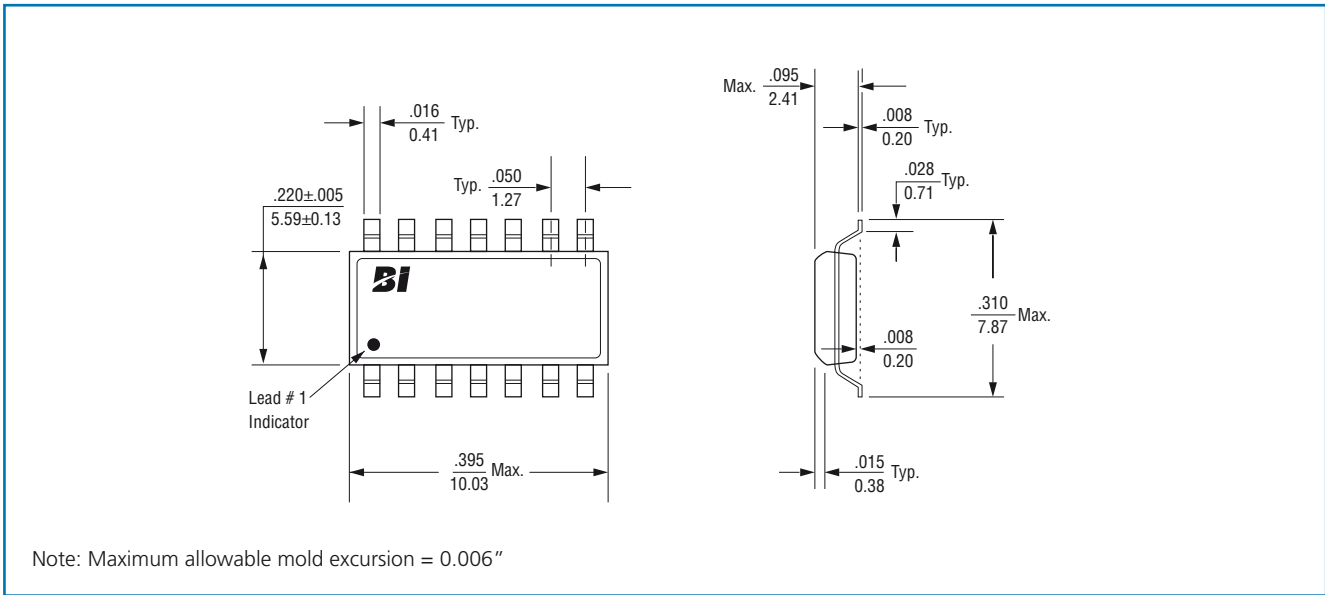
Power Derating Curve

Power Dissipation, Watts At 70°C

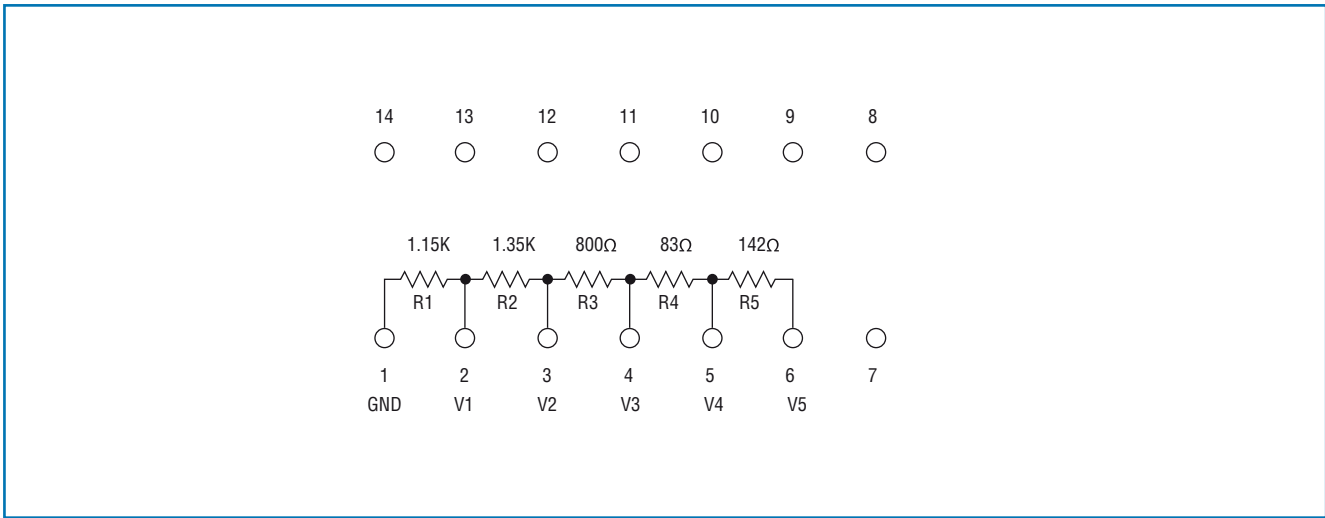


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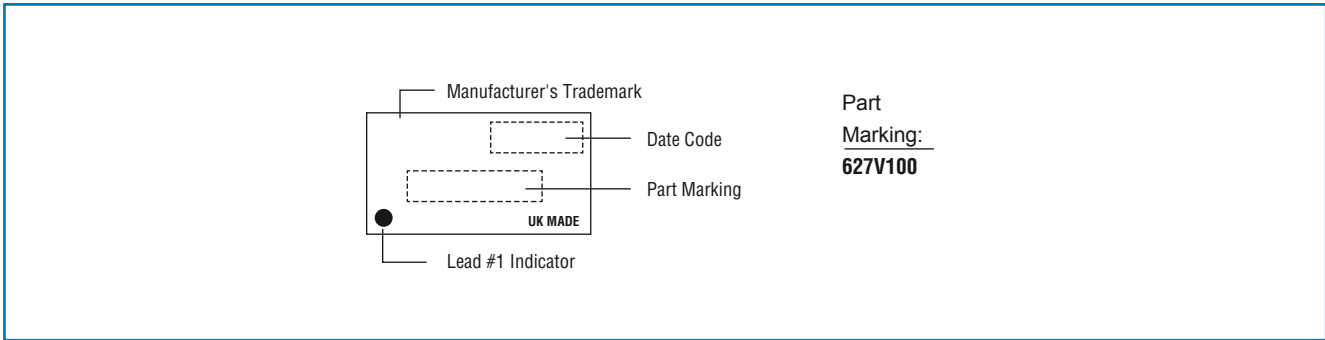
Outline Dimensions (Inch/mm)



Schematic



Part Marking



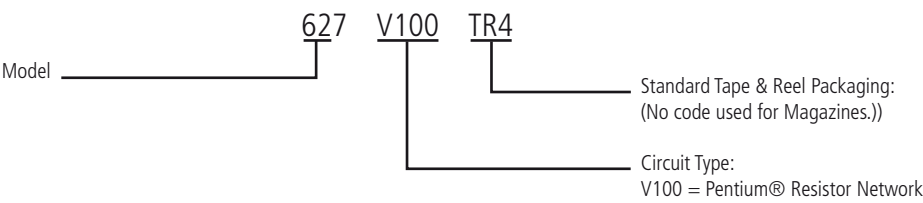
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Packaging

Standard	Tape & Reel Conforms to requirements of EIA-481. All units oriented with lead #1 to the left of direction of feed.		
Tape	Width = Pocket = Pitch =	24mm Embossed Plastic, Antistatic 12mm	
Reel	Diameter = Capacity =	13" (330mm) Maximum 2,000 Units	
Option:	Magazines Conforms to EIA and JEDEC standards. All units oriented with lead #1 to the same side.		
Magazine:	Capacity =	50 Units	

Ordering Information



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