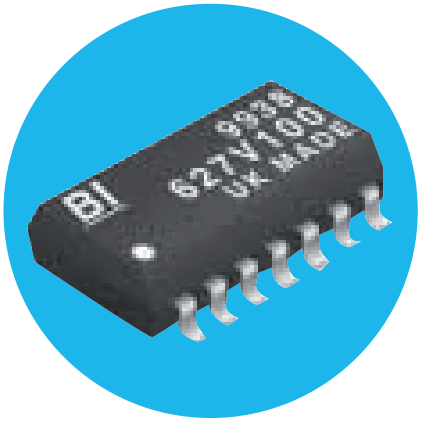
Resistors

Model 627 V100 OBSOLETE



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.

All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

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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Model 627 T Series

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)

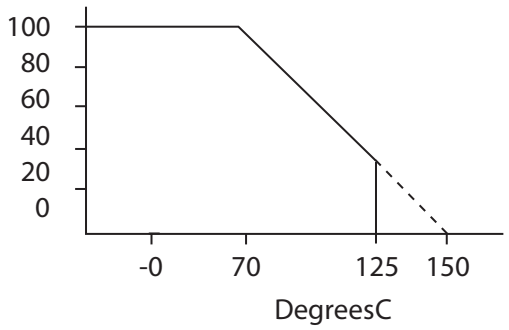
$\frac{V2}{V1}$ = 2.174±1% (Sets LTC1266 VFB = 1.150V±1%)

$\frac{V3}{V2}$ = 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

Model	Package	Per Resistor
627 V100	0.625	0.125

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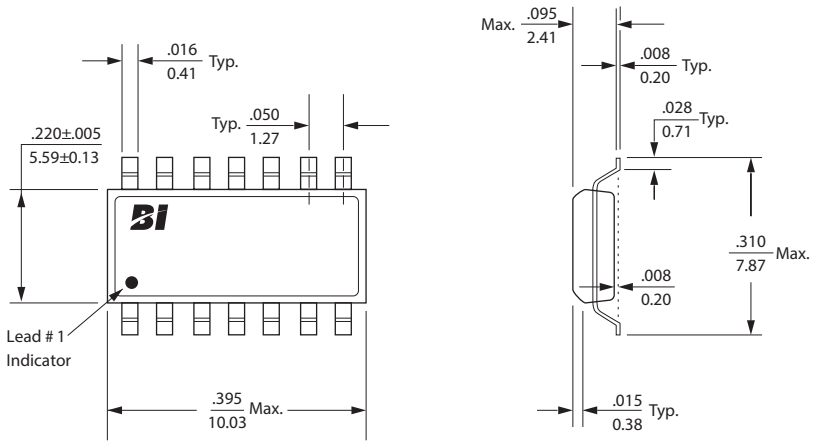
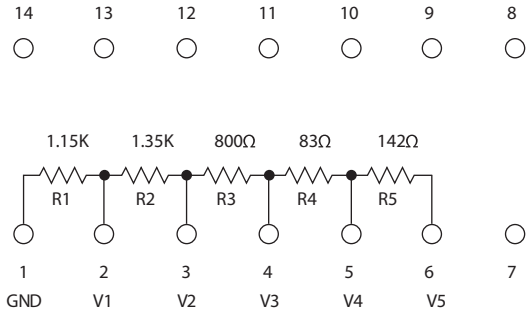
Outline Dimensions (Inch/mm)

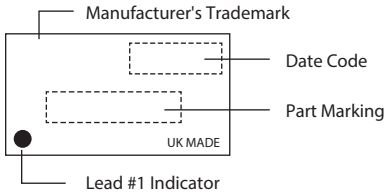


Note: Maximum allowable mold excursion = 0.006”

Schematic



Part Marking



Part Marking:
627V100

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.

Bi technologies IRC Welwyn

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Model 627 T Series

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