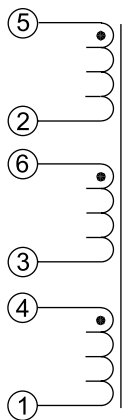
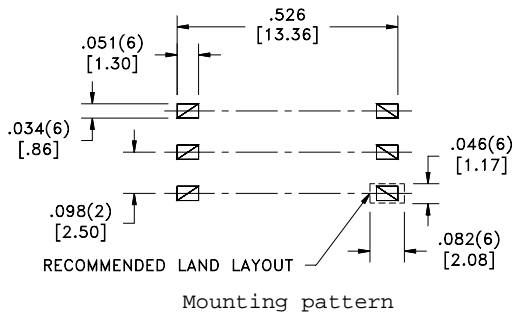
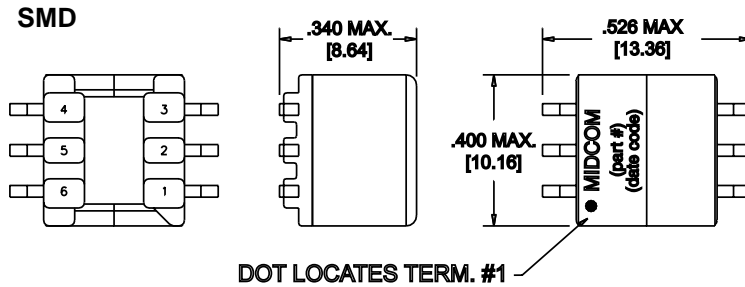


# Gemini 7 Transformers



- 1 Inductance measured at 10kHz and 100mV. Tolerance is +/- 15%.
- 2 Amount of DC current that will result in approximately a 15% decrease in inductance.
- 3 RMS current rating for each single wind based on 250 circular mils per amp.
- 4 Maximum breakdown voltage between any 2 windings is 500VDC. Safety critical or high voltage designs are available upon request as a customized product.
- 5 Turns ratio 1:1:1 +/- 1%.

## Features

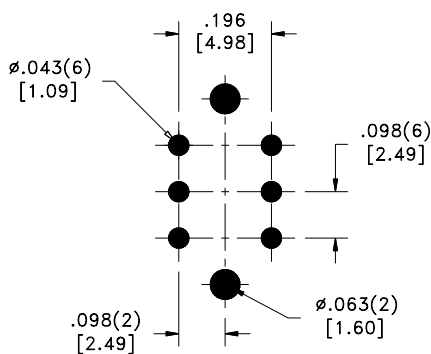
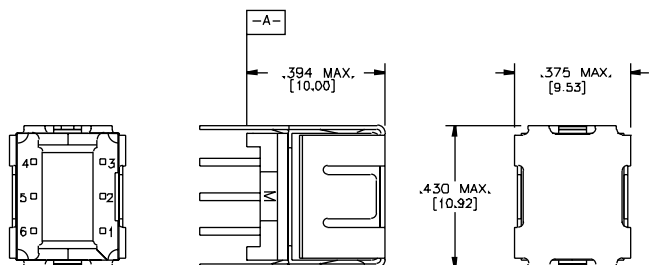
- Economic, reliable SMD or TH transformers or inductors
- Combine windings in series or parallel to meet your specific application
- Core geometry provides low radiated noise
- Manufactured with UL94 V-O Materials
- Surface mount products are pick and place compatible
- Compatible with solder reflow process to 240° C
- Off the shelf availability
- Power range: Typically 5 watts and below
- Frequency range up to 500kHz

## Applications

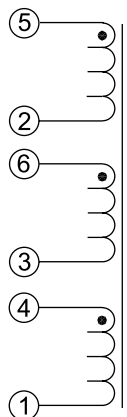
- Ideal for use as inductors or transformers in DC/DC converters for the following topologies:
  - Buck/Boost
  - Chokes
  - Filters
  - Coupled inductors
  - Flyback
  - Push-Pull
  - SEPIC
  - Cuk
  - Forward converters
  - Half/Full bridge

## Gemini 7 Transformers (continued)

TH



MOUNTING PATTERN



### Features

#### Environmental Specifications

- Operating temperature range: -4°C to +85°C
- Storage temperature range: -50°C to +125°C

#### Packaging

- Surface mount parts packaged in 24/32 mm embossed carrier tape per EIA-481-3
  - 400 pieces per 13" reel
- Through hole parts packaged in trays
  - 156 per 1092 per box

P/N SMD	P/N TH	$L_{Base}^1$ uH	$I_{sat}^{Base}^2$ mA	$I_{rms}^{Base}^3$ mA	DCR Max per wind ohms	Isolation between each wind VDC
31036R	31049	4.7	3000	250	0.170	500
31037R	31050	7.1	2000	250	0.170	500
31038R	31051	11.5	1000	250	0.170	500
31039R	31052	200 min	50	250	0.170	500