

## CABLE MODEM MAGNETICS

### Wideband RF Transformers

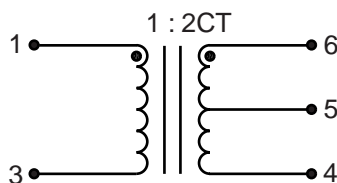
- Optimized for use in the upstream data path within cable modem applications
- Designed for use with a variety of high frequency drivers
- Excellent insertion loss and return loss characteristics
- Operating temperature 0° to 70° C
- Storage temperature -40° to +100° C
- Minimum interwinding breakdown voltage of 1500 Vrms

#### ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±3%	Insertion Loss dB max		Return Loss dB min	Primary Inductance µH min	DCR Ω max		Hipot Vrms min
	Pri : Sec	1MHz to 250MHz	5MHz to 65MHz	30MHz to 60MHz		Pri	Sec	
S554-5999-03	1 : 2CT	1.5	0.5	18	30	0.250	0.500	1500
S554-5999-06	1 : 2CT	1.5	0.5	18	30	0.300	0.750	1500

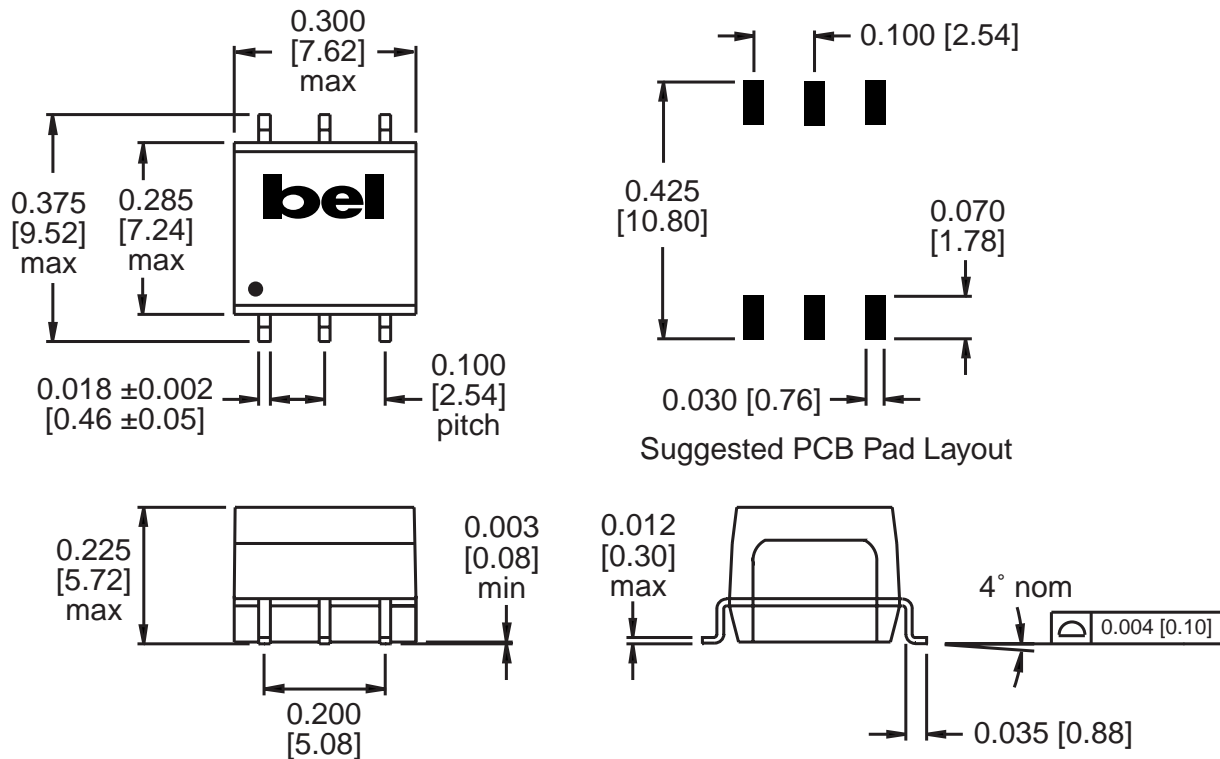
#### SCHEMATIC

**S554-5999-03**  
**S554-5999-06**



#### MECHANICAL

S554-5999-03  
S554-5999-06



Dimensions are in inches [millimeters].  
Standard dimension tolerance is  $\pm 0.005$  [0.13] unless otherwise noted.

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