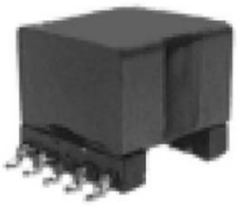
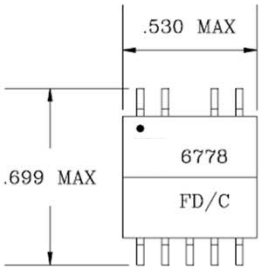
**Electromagnetic Integrated Solutions**
8061 Avonia Road, Fairview, PA 16415
P: +1 (814) 474 1571
E: eisSales@apitech.com
http://eis.apitech.com

# HDSL Line Transformer 6778

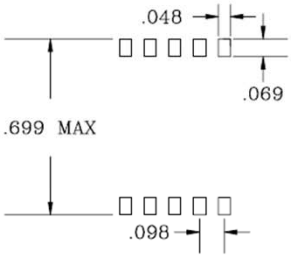
- Complaint with Globespan chip sets
- Designed to reflect 135Ω line side, 8.4Ω IC side
- Extended temperature range -40°C to +85°C



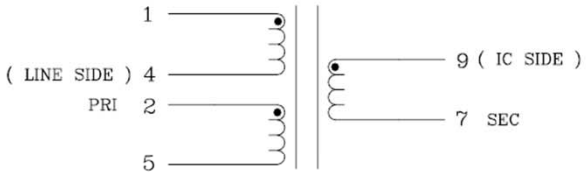
## MECHANICAL (All dimensions in inches)

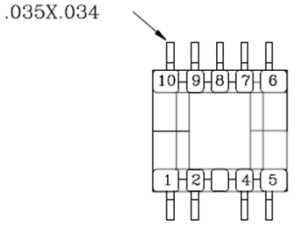


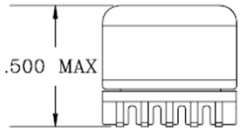

SUGGESTED PAD LAYOUT




SCHEMATIC




## ELECTRICAL SPECIFICATION @ 25˚C

| Part Number | L | L | $L_L$ | DCR ±10% | | | Turns Ratio ±1% | Hipot | $C_{ww}$ | Return Loss | Insertion Loss | Frequency Response | Longitudinal Balance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | @10kHz, 0DC (mH) | @10kHz, 100mADC (mH) | @100 KHz (µH) | 1-4 (Ω) | 2-5 (Ω) | 9-7 (Ω) | 10kHz | VAC | 100kHz (pF MAX) | 40kHz-500kHz (dB MIN) | @100kHz (dB MAX) | 40kHz-1MHz (dB MAX) | 40kHz-500kHz (dB MAX) |
| 6778 | 2.07 | 2.07 | 15.00 | 1.45 | 1.45 | 0.45 | 4 : 1 | 1,875 | 65.00 | 15.00 | 0.50 | ±1.00 | 55.00 |