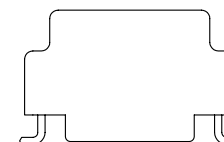
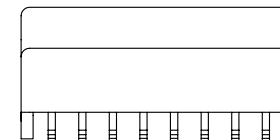
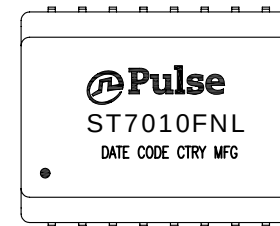


NOTES:

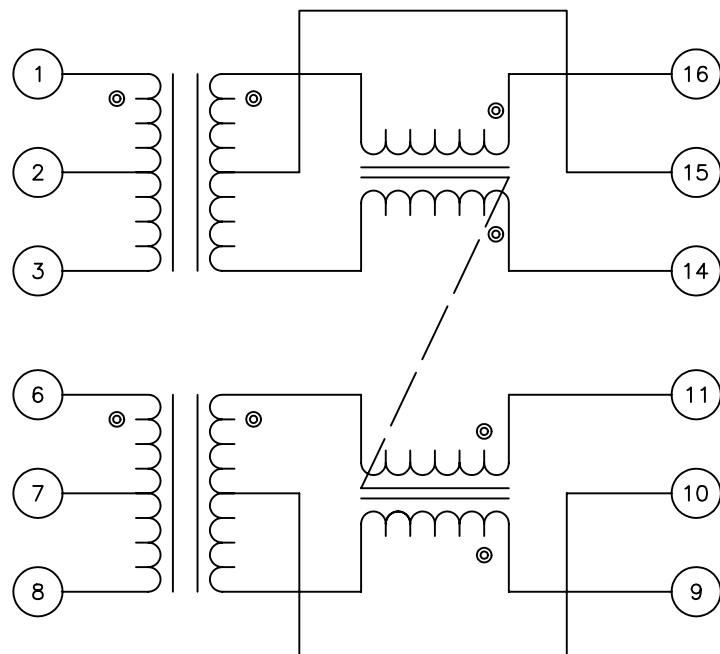
1. ROHS COMPLIANT
2. HEADER: PHENOLIC WITH FLAMMABILITY  
RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX  
TO THE PART NUMBER(i.e ST7010FNL BECOMES ST7010FNLT).



FINAL OUTLINE

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| PRODUCT DESCRIPTION       | TLA DRAWING  | PS DRAWING    | SHEET  | PART NO.  | DATASHEET REV. |
|---------------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,10D,1:1.414 SM,TU | ST7010FNL-10 | PS-2755.001-A | 1 OF 3 | ST7010FNL | A              |



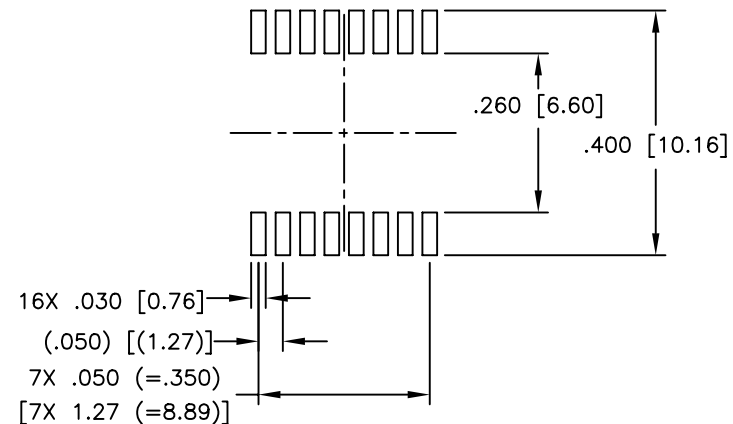
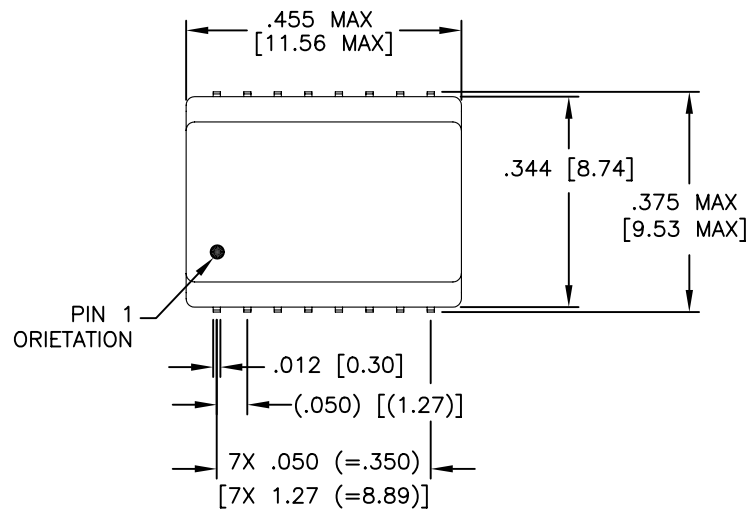
SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

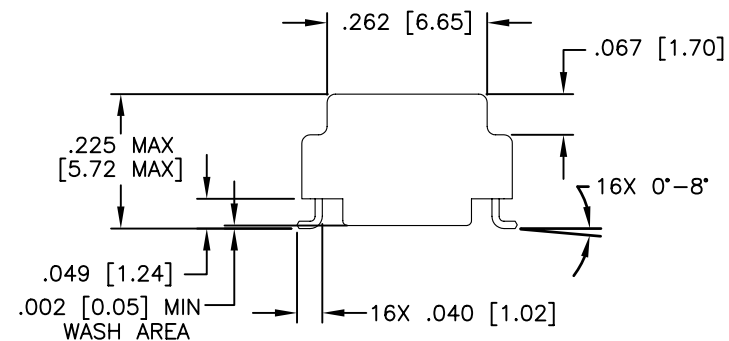
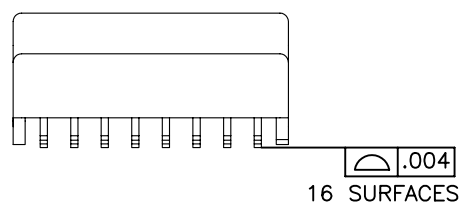
| PARAMETER                           | SPECIFICATIONS                                                                                                                                            |              |              |              |              |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|
| OPERATING TEMPERATURE               | 0°C ~ +70°C                                                                                                                                               |              |              |              |              |
| POLARITY                            | PER SCHEMATIC                                                                                                                                             |              |              |              |              |
| URNS RATIO                          | $(6-8)/(11-9) = 1 : 1.414 \pm 5\%$<br>$(1-3)/(16-14) = 1 : 1 \pm 5\%$                                                                                     |              |              |              |              |
| INDUCTANCE (OCL)<br>@ 20 mV, 10 KHz | $(1-3) = 175 \mu\text{H MIN}$<br>$(6-8) = 80 \mu\text{H MIN}$<br>$15-(14, 16) = 18-60 \mu\text{H}$                                                        |              |              |              |              |
| DC RESISTANCE                       | 0.9 OHMS MAX                                                                                                                                              |              |              |              |              |
| LL                                  | $(1-3) \text{ SHORTED } (14-16) = .40 \mu\text{H MAX @ } 1 \text{ MHz MIN}$<br>$(9-11) \text{ SHORTED } (6-8) = .55 \mu\text{H MAX @ } 1 \text{ MHz MIN}$ |              |              |              |              |
| CWW                                 | 20 pF MAX (AT 140 KHz, 1 V)                                                                                                                               |              |              |              |              |
| BETWEEN CHANNEL ISOLATION           | 1500 VRMS FOR 60 SECONDS                                                                                                                                  |              |              |              |              |
| Zp<br>15-(14, 16)                   | 10 MHz                                                                                                                                                    | 20-30 MHz    | 55 MHz       | 70 MHz       | 100 MHz      |
|                                     | 650 OHMS                                                                                                                                                  | 950 OHMS MIN | 550 OHMS MIN | 400 OHMS MIN | 200 OHMS MIN |

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|---------------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,10D,1:1.414 SM,TU | ST7010FNL-10 | PS-2755.001-A | 2 OF 3 | ST7010FNL | A              |



SUGGESTED LAND PATTERN



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
 .XX= ±.01 [±0.25]  
 .XXX= ±.005 [±0.13]

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| PRODUCT DESCRIPTION       | TLA DRAWING  | PS DRAWING    | SHEET  | PART NO.  | DATASHEET REV. |
|---------------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,10D,1:1.414 SM,TU | ST7010FNL-10 | PS-2755.001-A | 3 OF 3 | ST7010FNL | A              |