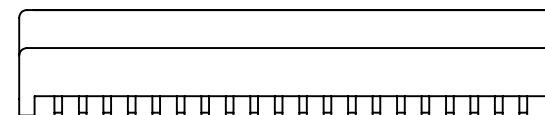
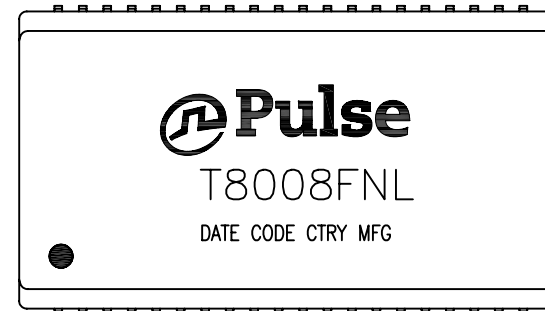


NOTES:

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 T8008FNL BECOMES T8008FNLT).

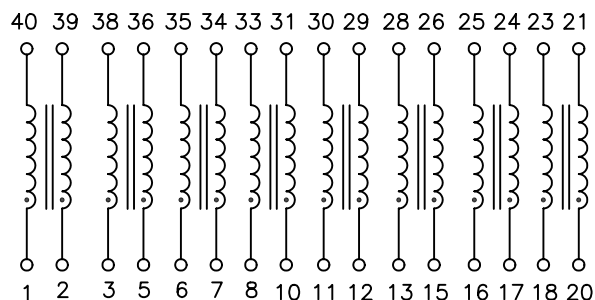


FINAL OUTLINE

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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|---------------------------------|-------------|---------------|--------|----------|----------------|
| CHOKE 2W,OCTAL,T1,40POH,47uH,NL | T8008FNL-10 | PS-2743.001-A | 1 OF 3 | T8008FNL | A |

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

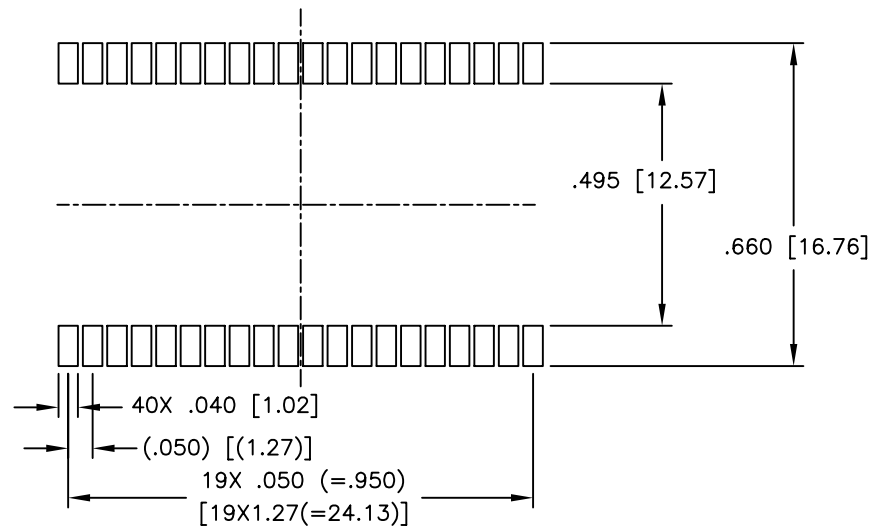
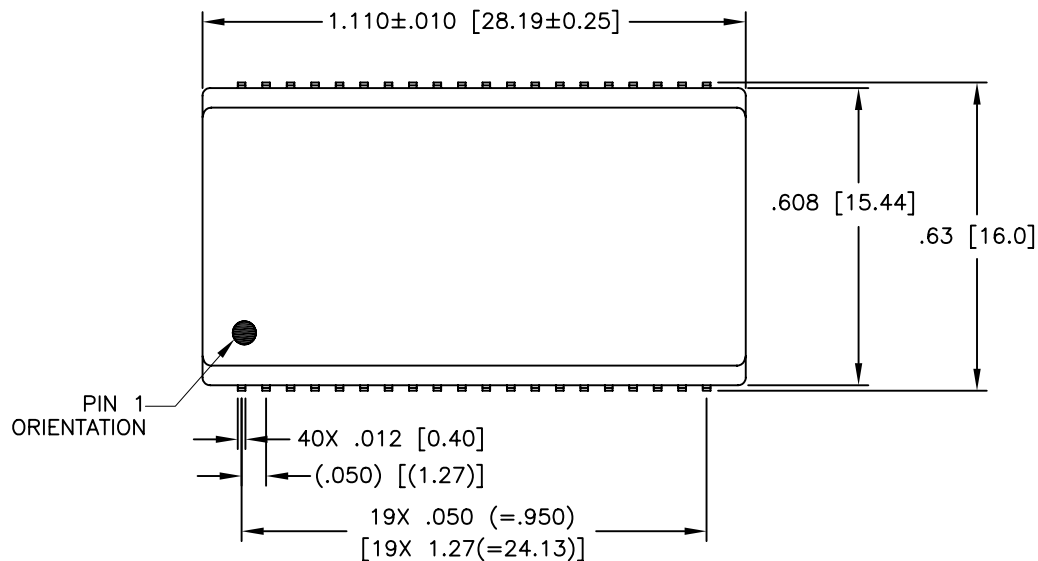


SCHEMATIC

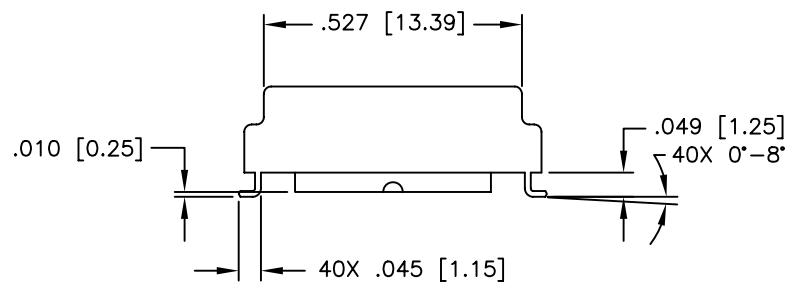
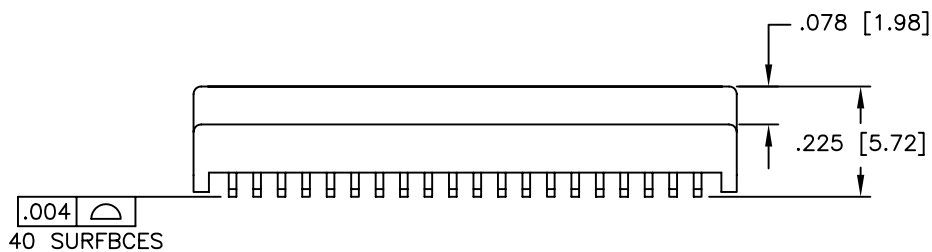
| PARAMETER | SPECIFICATIONS | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|---------|---------|---------|---------|---------|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| OPERATING TEMPERATURE | 0°C - 70°C | | | | | | | | | | | | | | | | | | | | | |
| POLARITY | PER SCHEMATIC | | | | | | | | | | | | | | | | | | | | | |
| TURNS RATIO @ 10 KHz, 0.1 VRMS | $\frac{(1-40)}{(2-39)} = \frac{(3-38)}{(5-36)} = \frac{(6-35)}{(7-34)} = \frac{(8-33)}{(10-31)} = 1.0 \pm 2\%$ $\frac{(11-30)}{(12-29)} = \frac{(13-28)}{(15-26)} = \frac{(16-25)}{(17-24)} = \frac{(18-23)}{(20-21)} = 1.0 \pm 2\%$ | | | | | | | | | | | | | | | | | | | | | |
| INDUCTANCE (OCL) @ 100 KHz, 0.1 VRMS | (1-40) = (3-38) = (6-35) = (8-33) = 47.0 uH MIN (12-29) = (15-26) = (17-24) = (20-21) = 47.0 uH MIN | | | | | | | | | | | | | | | | | | | | | |
| DC RESISTANCE | (11-30) = (13-28) = (16-25) = (18-23) = 0.50 OHMS MAX (2-39) = (5-36) = (7-34) = (10-31) = 0.50 OHMS MAX | | | | | | | | | | | | | | | | | | | | | |
| LEAKAGE INDUCTANCE @ 100 KHz, 0.1 VRMS | (1-40) WITH (2-39) SHORTED = .450 uH MAX (3-38) WITH (5-36) SHORTED = .450 uH MAX (6-35) WITH (7-34) SHORTED = .450 uH MAX (8-33) WITH (10-31) SHORTED = .450 uH MAX (11-30) WITH (12-29) SHORTED = .450 uH MAX (13-28) WITH (15-26) SHORTED = .450 uH MAX (16-25) WITH (17-24) SHORTED = .450 uH MAX (18-23) WITH (20-21) SHORTED = .450 uH MAX | | | | | | | | | | | | | | | | | | | | | |
| CWW @ 100 KHz, 1.0 VRMS | (1-40) TO (2-39) = 25 pF MAX (3-38) TO (5-36) = 25 pF MAX (6-35) TO (7-34) = 25 pF MAX (8-33) TO (10-31) = 25 pF MAX (11-30) TO (12-29) = 25 pF MAX (13-28) TO (15-26) = 25 pF MAX (16-25) TO (17-24) = 25 pF MAX (18-23) TO (20-21) = 25 pF MAX | | | | | | | | | | | | | | | | | | | | | |
| COMMON MODE ATTENUATION | <table border="1"> <thead> <tr> <th>.100 MHz</th> <th>1 MHz</th> <th>10 MHz</th> <th>30 MHz</th> <th>50 MHz</th> <th>100 MHz</th> <th>300 MHz</th> </tr> </thead> <tbody> <tr> <td>-7 dB</td> <td>-18 dB</td> <td>-32 dB</td> <td>-36 dB</td> <td>-35 dB</td> <td>-29 dB</td> <td>-15 dB</td> </tr> <tr> <td>MINIMUM</td> <td>MINIMUM</td> <td>MINIMUM</td> <td>MINIMUM</td> <td>MINIMUM</td> <td>MINIMUM</td> <td>MINIMUM</td> </tr> </tbody> </table> | .100 MHz | 1 MHz | 10 MHz | 30 MHz | 50 MHz | 100 MHz | 300 MHz | -7 dB | -18 dB | -32 dB | -36 dB | -35 dB | -29 dB | -15 dB | MINIMUM | MINIMUM | MINIMUM | MINIMUM | MINIMUM | MINIMUM | MINIMUM |
| .100 MHz | 1 MHz | 10 MHz | 30 MHz | 50 MHz | 100 MHz | 300 MHz | | | | | | | | | | | | | | | | |
| -7 dB | -18 dB | -32 dB | -36 dB | -35 dB | -29 dB | -15 dB | | | | | | | | | | | | | | | | |
| MINIMUM | MINIMUM | MINIMUM | MINIMUM | MINIMUM | MINIMUM | MINIMUM | | | | | | | | | | | | | | | | |
| HIPOT | 650 VRMS FOR 6S | | | | | | | | | | | | | | | | | | | | | |

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SUGGESTED PAD LAYOUT



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
 .XX= ± 0.01 [± 0.25]
 .XXX= ± 0.005 [± 0.13]

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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|---------------------------------|-------------|---------------|--------|----------|----------------|
| CHOKE 2W,OCTAL,T1,40POH,47uH,NL | T8008FNL-10 | PS-2743.001-A | 3 OF 3 | T8008FNL | A |