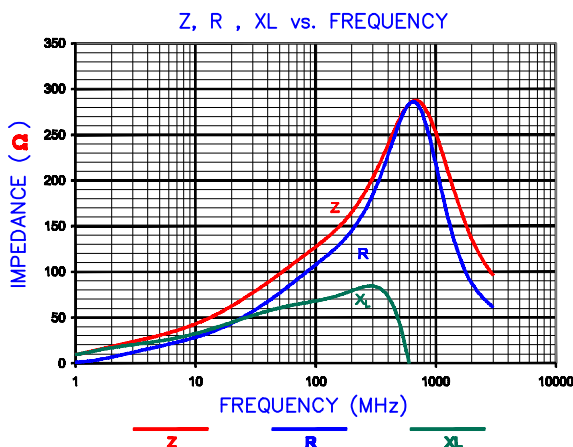
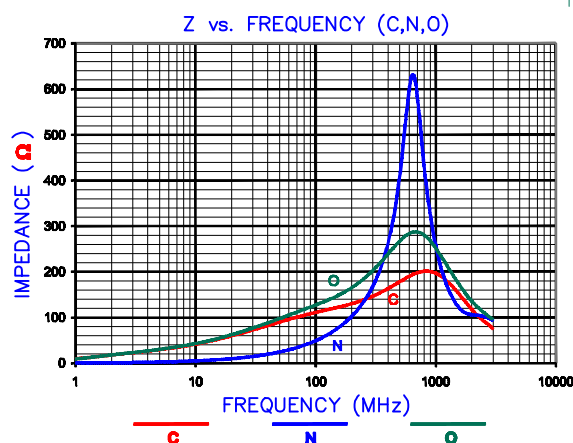


# PHYSICAL DIMENSIONS:

|    |               |                    |
|----|---------------|--------------------|
| A  | 11.38 [1.448] | $\pm$ 0.18 [0.007] |
| B  | 11.38 [1.448] | $\pm$ 0.18 [0.007] |
| B1 | 14.10 [1.555] | MAX                |
| C  | 9.32 [1.367]  | $\pm$ 0.18 [0.007] |
| C1 | 10.16 [1.400] | MAX                |
| D  | 7.62 [1.300]  | $\pm$ 0.10 [0.004] |
| E  | 2.54 [1.100]  | $\pm$ 0.13 [0.005] |

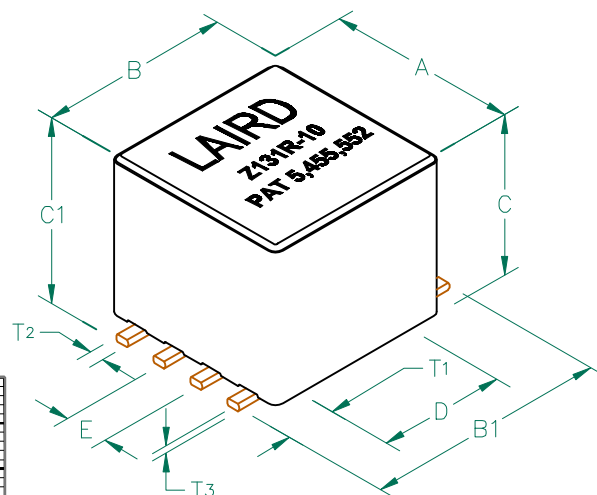
|                |              |                    |
|----------------|--------------|--------------------|
| T <sub>1</sub> | 2.90 [1.114] | $\pm$ 0.25 [0.010] |
| T <sub>2</sub> | 0.84 [0.033] | TYP.               |
| T <sub>3</sub> | 0.46 [0.018] | TYP.               |



# CM4545Z131R-10

**UNCONTROLLED  
DOCUMENT**

**RoHS**  
2002/95/EC



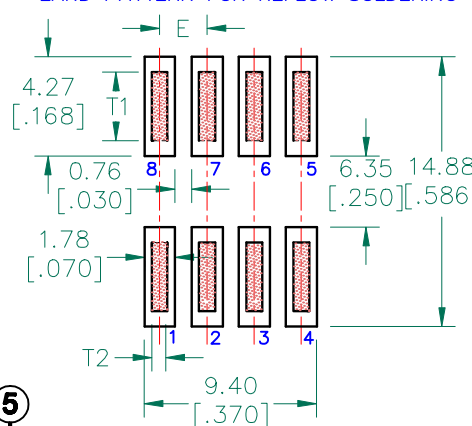
## ELECTRICAL CHARACTERISTICS:

|         | Z @ 100MHz<br>( $\Omega$ ) | DCR<br>( $\Omega$ ) | Rated<br>Current | Rated<br>Voltage<br>(VDC) |
|---------|----------------------------|---------------------|------------------|---------------------------|
| Nominal | 130                        |                     |                  |                           |
| Minimum | 98                         |                     |                  |                           |
| Maximum | 163                        | 0.01                | 10,000 mA        | 140                       |

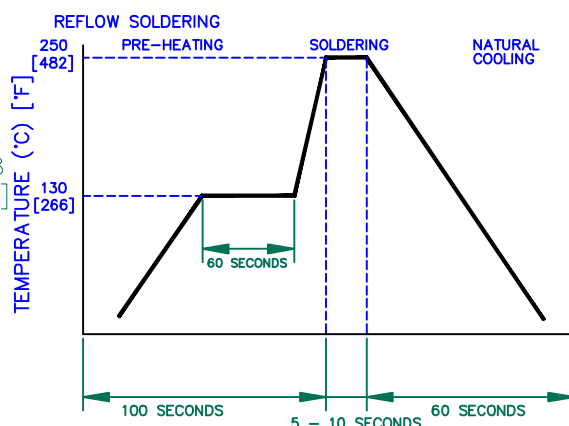
NOTES: UNLESS OTHERWISE SPECIFIED

1. TAPED AND REELED per CURRENT EIA SPECIFICATIONS 13" REELS, 400 PCS/REEL.
2. COMPONENTS SHOULD BE ADEQUATELY PREHEATED BEFORE SOLDERING.
3. REF. CARRIER TAPE SPECIFICATION CART449-63.
4. TERMINATION FINISH IS 100% TIN.
5. THIS PART HAS NO PIN POLARITY.
6. OPERATION TEMPERATURE (INCLUDING SELF-HEATING): -40 ~ +125°C.

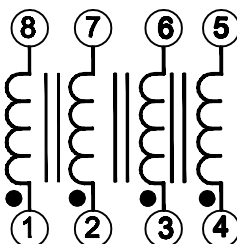
## LAND PATTERN FOR REFLOW SOLDERING



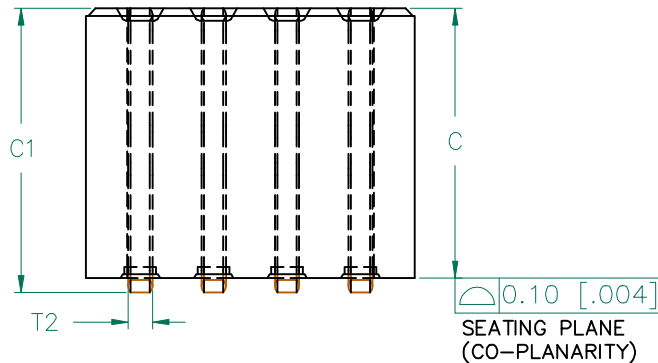
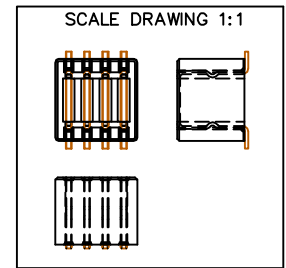
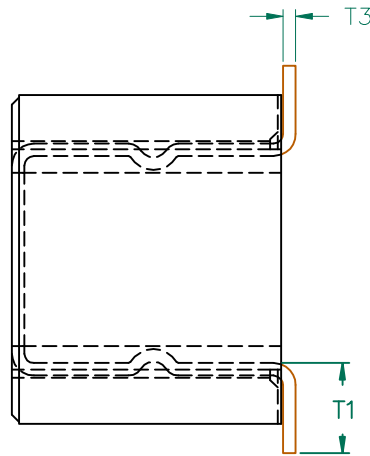
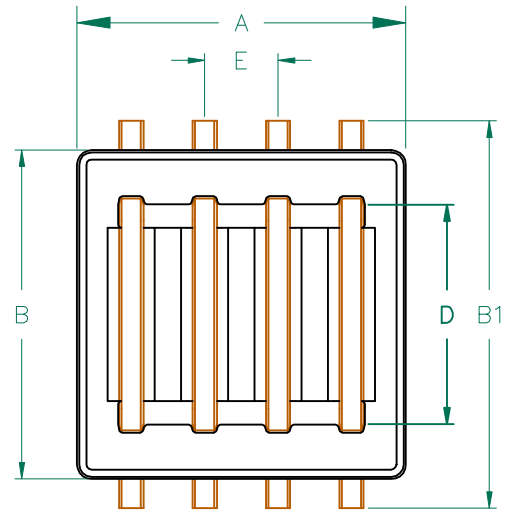
## RECOMMENDED SOLDERING CONDITIONS



## EQUIVALENT CIRCUIT



| DIMENSIONS ARE IN mm [INCHES]. |                                   |          |     | This print is the property of Laird Tech. and is loaned in confidence subject to return upon request and with the understanding that no copies shall be made without the written consent of Laird Tech. All rights to design or invention are reserved. |                  |               |  |
|--------------------------------|-----------------------------------|----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|--|
| D                              | ADD RATED VOLTAGE AND NOTE 6      | 08/30/12 | QU  | PROJECT/PART NUMBER:<br><b>CM4545Z131R-10</b>                                                                                                                                                                                                           |                  |               |  |
| C                              | UPDATE LOGO & KAPTON LABEL ADD EC | 11/11/08 | JRK |                                                                                                                                                                                                                                                         |                  |               |  |
| B                              | UPDATE COMPANY LOGO               | 12/10/07 | JRK |                                                                                                                                                                                                                                                         |                  |               |  |
| A                              | ORIGINAL DRAFT                    | 06/02/04 | JRK |                                                                                                                                                                                                                                                         |                  |               |  |
| REV                            | DESCRIPTION                       | DATE     |     | DATE: 06/02/04                                                                                                                                                                                                                                          | SCALE: NTS       | SHEET: 2 of 3 |  |
|                                |                                   |          |     | CAD # CM4545Z131R-10-D-2                                                                                                                                                                                                                                | TOOL # H0449-600 |               |  |



**LAIRD**  
Z131R-10  
PAT 5,455,552

LABEL

**UNCONTROLLED  
DOCUMENT**

#### ELECTRICAL TESTING

| TEST:       | Z         | Z          |
|-------------|-----------|------------|
| # TURNS     | 1         | 1          |
| AWG         | 22        | 22         |
| FREQUENCY   | 25 MHz    | 100 MHz    |
| NOMINAL     | 70 Ω      | 130 Ω      |
| MINIMUM     | 53 Ω      | 98 Ω       |
| MAXIMUM     | - Ω       | 163 Ω      |
| WEIGHT/1000 | 5.13 kgs. | 11.32 lbs. |

NOTES: UNLESS OTHERWISE SPECIFIED

1. WIRE: REFERENCE STEWARD WIRE PURCHASE SPEC. W0449-61.
2. IMPEDANCE VALUES ARE GROSS, MEASURED USING W0449-61 WIRE PLACED AGAINST END OF SLOT w/ NO D.C. BIAS.
3. REFERENCE STEWARD CORE P/N 29H0449-600.
4. PROTECTED BY U.S. PATENT NO. 5,455,552.
5. TERMINATION FINISH IS 100% TIN.
6. THIS PART HAS NO PIN POLARITY.

#### DIMENSIONS:

|    |              |   |             |
|----|--------------|---|-------------|
| A  | 11.38 [.448] | + | 0.18 [.007] |
| B  | 11.38 [.448] | + | 0.18 [.007] |
| B1 | 14.10 [.555] | + | MAX         |
| C  | 9.32 [.367]  | + | 0.18 [.007] |
| C1 | 10.16 [.400] | + | MAX         |
| D  | 7.62 [.300]  | + | 0.10 [.004] |
| E  | 2.54 [.100]  | + | 0.13 [.005] |

#### WIRE DIMENSIONS:

|    |             |   |             |
|----|-------------|---|-------------|
| T1 | 2.90 [.114] | + | 0.25 [.010] |
| T2 | 0.84 [.033] | + | TYP.        |
| T3 | 0.46 [.018] | + | TYP.        |



| DIMENSIONS ARE IN mm [INCHES]. |                                   |          |     | This print is the property of Laird Tech. and is loaned in confidence subject to return upon request and with the understanding that no copies shall be made without the written consent of Laird Tech. All rights to design or invention are reserved. |  |            |           |
|--------------------------------|-----------------------------------|----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-----------|
| D                              | ADD RATED VOLTAGE AND NOTE 6      | 08/30/12 | QIU | PROJECT/PART NUMBER:                                                                                                                                                                                                                                    |  | REV        | DRAWN BY: |
| C                              | UPDATE LOGO & KAPTON LABEL ADD EC | 11/11/08 | JRK | CM4545Z131R-10                                                                                                                                                                                                                                          |  | D          | JRK       |
| B                              | UPDATE COMPANY LOGO               | 12/10/07 | JRK | DATE: 06/02/04                                                                                                                                                                                                                                          |  | SCALE: NTS |           |
| A                              | ORIGINAL DRAFT                    | 06/02/04 | JRK | CAD #                                                                                                                                                                                                                                                   |  | H0449-600  |           |
| REV                            | DESCRIPTION                       | DATE     |     | CM4545Z131R-10-D-3                                                                                                                                                                                                                                      |  | 3 of 3     |           |

