



## CX2142NL

- BALUN TRANSFORMERS
- 1:1, 50–870 MHz
- IMPEDANCE = 75 OHMS
- SURFACE MOUNT

### ELECTRICAL SPECIFICATIONS: @ 25°C

#### INSERTION LOSS:

| FREQUENCY | ATTENUATION |
|-----------|-------------|
| 50 MHz    | –1.0 dB MAX |
| 208 MHz   | –1.0 dB MAX |
| 870 MHz   | –1.0 dB MAX |

#### RETURN LOSS:

| FREQUENCY | ATTENUATION |
|-----------|-------------|
| 50 MHz    | –9.0 dB MIN |
| 208 MHz   | –20 dB MIN  |
| 870 MHz   | –18 dB MIN  |

#### AMPLITUDE UNBALANCE:

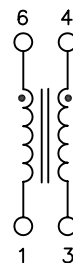
| FREQUENCY   | ATTENUATION |
|-------------|-------------|
| 50–1000 MHz | ±8° MAX     |

#### PHASE UNBALANCE:

| FREQUENCY    | ATTENUATION |
|--------------|-------------|
| 50 MHz       | 1.4 dB MAX  |
| 100–1000 MHz | .7 dB MAX   |

#### NOTES: UNLESS OTHERWISE SPECIFIED

1. OPERATING TEMPERATURE: –40°C TO +85°C
2. STORAGE TEMPERATURE: –50°C TO +125°C
3. COMPLIANCE TO J-STD:
  - J-STD-002: SOLDERABILITY AT REFLOW PEAK TEMPERATURE OF 245°C
  - J-STD-020: MSL 1, NO MOISTURE SENSITIVE
  - J-STD-075: R6, 250°C MAXIMUM THROUGH REFLOW SOLDER
4. DIMENSIONS ARE IN INCHES.  
TOLERANCE:
  - .XX = ±.01
  - .XXX = ±.005
5. OPTIONAL TAPE & REEL PACKAGING CAN BE ORDERED BY ADDING  
A "T" SUFFIX TO THE PART NUMBER. ie: CX2142NLT



SCHEMATIC

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PRODUCT DESCRIPTION:

XFMR, SGL, RF, 50–870MHz, 1:1

SHEET:

1 OF 2

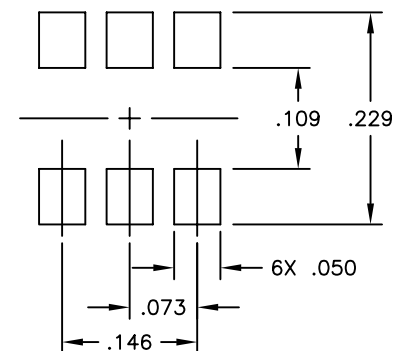
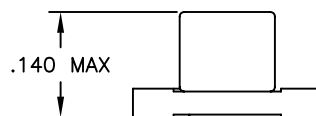
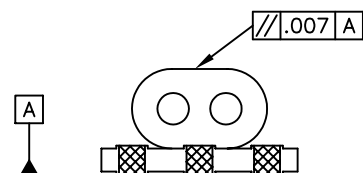
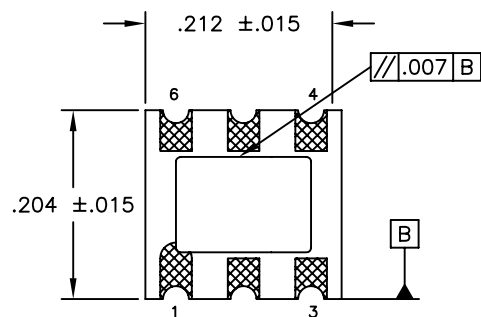
PART NO.

CX2142NL

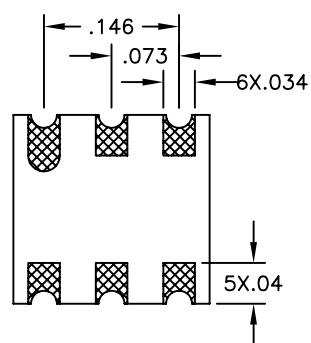
DATASHEET REV.

M12

**MECHANICAL SPECIFICATIONS:**



SUGGESTED LAND PATTERN



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SHEET:

2 OF 2

PART NO.

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DATASHEET REV.

M12