

Features:

- 2488.32 MHz PECL output
- Low Profile Surface Mount Package
- Excellent solder reflow performance
- PCB Substrate for excellent TCE match

Description and Applications:

Surface mount 15.8 mm SQ Frequency Translator operating at a **3.3V** supply with complementary PECL outputs for use in telecom & datacom applications



Electrical Specifications:

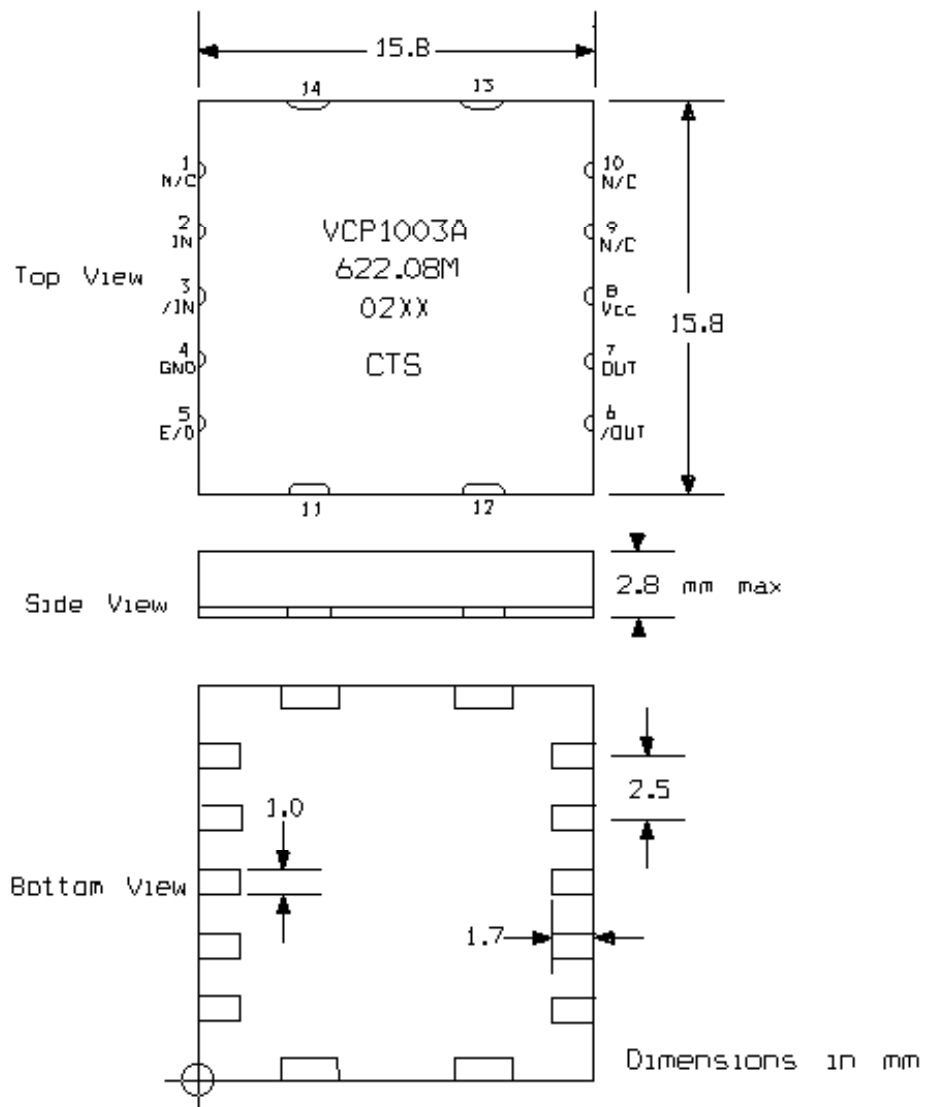
| VCP1010A | Specification |
|--|--------------------------|
| Input frequency | 622.08 MHz |
| Output frequency | 2488.32 MHz |
| Supply Voltage ($\pm 5\%$) | 3.3V |
| Current Drain | 95 mA max. |
| Operating Temperature | -40° to +85°C |
| Input frequency tracking capability | +/- 32 ppm minimum |
| Rejection | > 30 dB @ 100 KHz offset |
| RMS phase jitter generation | < 7 psec |
| RMS phase jitter generation (12 kHz to 20 MHz) | < 1 psec |
| RMS phase jitter generation (50 kHz to 80 MHz) | < 1 psec |

CTS Wireless Components, Inc. 171 Covington Dr. Bloomingdale, Illinois 60108
Tel. (800) 757-6686 Fax: (630) 295-6606 www.ctscorp.com

Mechanical Dimensions (mm):

15.8 x 15.8 x 2.8 mm(max.):

Enable: Vcc
 Disable: GND



Environmental Limits:

| | |
|---------------------|--|
| Storage Temperature | -40 to +90 °C. |
| Humidity | 95% Relative humidity max @ 70°C. |
| Vibration | 10 to 60 Hz with double amplitude of 1.52mm max. (1/2 hour in each of 3 perpendicular planes). |
| Shock | 1/2 sine pulse, 3000G, with pulse width 0.3mSec. (3 shock in each of 6 directions of 3 perpendicular planes). |

MAXIMUM SOLDERING PROFILE

| | | | | |
|-------------|--------------|--------|---------|-----------------|
| Temperature | 110 to150 °C | >183°C | >235°C | 240°C |
| Time | 6min | 2.5min | 0.25min | Max temperature |

THIS DATA SHEET IS NOT AN OFFER FOR SALE AND SHALL NOT OBLIGATE CTS TO SELL THE PRODUCTS DESCRIBED HEREIN OR ANY OTHER PRODUCTS. CTS MAY, IN ITS SOLE DISCRETION, MODIFY OR DISCONTINUE THE SALE OF ITS PRODUCTS AT ANY TIME WITHOUT NOTICE. CTS MAKES NO WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCTS REFERENCED OR INFORMATION PROVIDED HEREIN.

CTS® is a registered trademark of CTS Corporation.

CTS Wireless Components, Inc. 171 Covington Dr. Bloomingdale, Illinois
60108
Tel. (800) 757-6686 Fax: (630) 295-6606 www.ctscorp.com