

OP1 Plastic Package 5.0 Vdc Squarewave Crystal Oscillators



1 to 70 MHz
 +5.0 Vdc ±10%
 HCMOS/TTL
 Tri-State Option
 Low profile 4.7 mm/0.19 inch tall
 J Leaded Surface Mount

TYPICAL P/N OP1-K2T5 32M768

PACKAGE TYPE DESIGNATOR:

OP1 9.8 x 14.0 x 4.7 mm tall

STABILITY OPTIONS:

Includes Calibration, Voltage & Load variation

I ±25 ppm 0 to +70°C	J ±25 ppm -40 to +85°C
K ±50 ppm 0 to +70°C	L ±50 ppm -40 to +85°C
M ±100 ppm 0 to +70°C	N ±100 ppm -40 to +85°C

ELECTRICAL OPTIONS

1T5 5.0 Vdc ±10%	TTL/HCMOS	50/50 ±10% symmetry	PIN1 NC
2T5 5.0 Vdc ±10%	TTL/HCMOS	50/50 ±5% symmetry ¹	PIN1 NC
3T5 5.0 Vdc ±10%	TTL/HCMOS	50/50 ±10% symmetry	PIN1 TRISTATE ² Enable High
4T5 5.0 Vdc ±10%	TTL/HCMOS	50/50 ±5% symmetry ¹	PIN1 TRISTATE ² Enable High

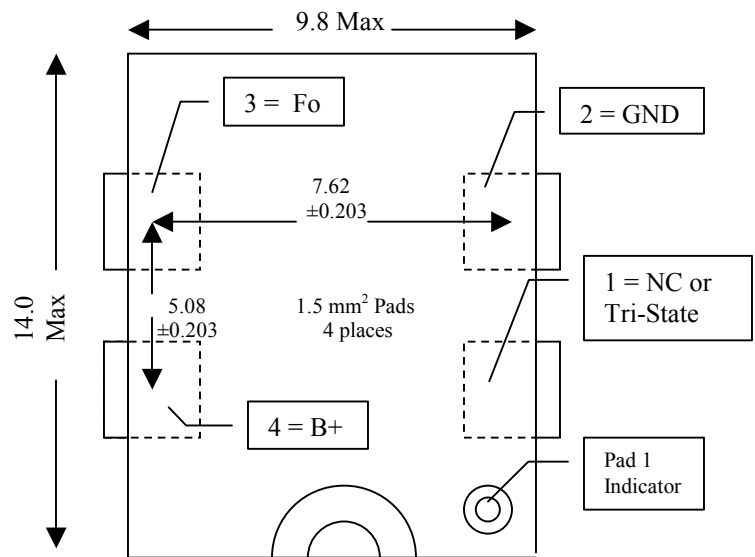
¹TTL symmetry measured at 1.4 Vdc available to 50 MHz. HCMOS measured at 2.5 Vdc

²Tristate enables with no connection or at +2.0 Vdc Minimum on PIN 1 and 0.8 Vdc maximum to disable output

OTHER SPECIFICATIONS

AGING: 5 ppm/year Max
 TTL LOAD: 10 loads max
 HCMOS LOAD: 50 pF ≤50 MHz
 30 pF >50 MHz
 STORAGE TEMP: -55°C to +125°C
 TTL LOGIC 0: 0.4 Vdc max to 30 MHz
 0.5 Vdc max >30 MHz
 TTL LOGIC 1: 2.4 Vdc minimum
 HCMOS LOGIC: 0.5 Vdc Logic 0 max.
 4.5 Vdc Logic 1 min.
 INPUT CURRENT: <35 mA to 50 MHz
 <45 mA to 70 MHz
 Tr and Tf <8 ns maximum
 PACKAGE COMPARABLE TO:
 Epson SG615G & SG8002JA or
 Ecliptek EC14
 PACKING: Bulk or Tape & Reel

Land Pattern 4 1.5 mm² Pads



Dimensions in mm. TOP VIEW. Pad dimensions are center to center. Not to scale. J-lead width is 0.5 mm.