

SBTO-18 (10.0 ~ 155)MHz

- # 4 pin(14 pin DIL layout)
- # hermetic seal
- # excellent phase noise
- # low ageing

Standard options:

frequency range:	_____ (10.0 ~ 155)MHz _____		
accuracy codes:	_____ (A) _____	_____ (B) _____	_____ (C) _____
temperature tolerance	±1.0ppm	±1.5ppm	±2.0ppm
temperature range	(-10 +60)°C	(-20 +70)°C	(-35 +70)°C
output codes:	_____ (S) _____	_____ (L) _____	
output	sine wave, 0dBm into 50Ω harmonics -30dBc max.	CMOS 15pF, 45% ~ 55% <2ns max. rise and fall	
supply voltage codes:	_____ (V1) _____	_____ (V2) _____	_____ (V3) _____
supply voltage V_{cc}	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.

Generic specification:

stability:	
against supply voltage change	±0.02ppm max. for $V_{cc} \pm 5\%$
against load change	±0.02ppm max. for load ±10%
ageing short term	±0.005ppm max. per day after 30 days continuous operation
ageing long term	±1.5ppm max. first year
voltage trim V_t	±10ppm min. typical, linearity ±5%
trim input impedance	100KΩ min.
power supplies:	
supply voltage V_{cc}	+3.3Vd.c. +5.0Vd.c. +12.0Vd.c.
supply current	frequency, V_{cc} and output load dependent
insulation resistance	500MegΩ min., at +100Vd.c.
phase noise:	
single sideband, 1Hz bandwidth	-80dBc/Hz, f_o+10 Hz -100dBc/Hz, f_o+100 Hz -125dBc/Hz, f_o+1 kHz
temperature:	
operating range	(0 +50)°C (-10 +60)°C (-40 +70)°C
storage range	(-40 +125)°C (-40 +125)°C (-40 +125)°C

SBTO-18

Environmental conditions:

mechanical shock: MIL standard 202F, method 213, condition J

thermal shock: MIL standard 202F, method 107, condition A

vibration: MIL standard 202F, method 204, condition B

solderability: 5 seconds max. at +230°C, 3 seconds max at +350°C

Marking:

frequency, date code, serial number on high temperature metalised polyester label

Ordering code:

standard specification: **A S V2 - 18.432M**
= series generic code

A temp. tol. and temp. range code: **A = ±1.0ppm(-10 +60)°C**

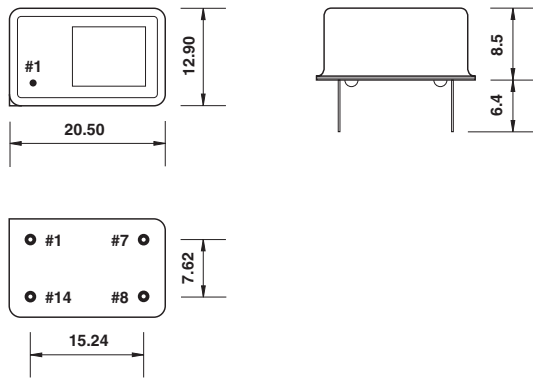
S output code: **S = sine wave output, 0dBm into 50Ω**

V2 supply voltage code: **V2 = +5Vd.c. supply**

18.432M output frequency: **18.432M = 18.432MHz**

custom specification: part number issued with custom specification and drawing

Dimensions(mm):

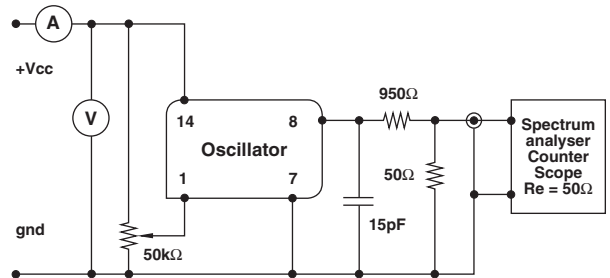


Pins viewed from bottom
pin diameter 0.45mm

Pin connections:

- #1 trim
- #7 ground/case
- #8 output
- #14 +V_{CC}

Test circuit:



Test circuit includes a 20:1 step down into a matched 50Ω load