

# Package : TOP21VT / TOP21VS

## Oven Controlled Crystal Oscillator (OCXO)

### ■Feature

The oscillator with our own excellent high stability technology (crystal-oscillator) Low current consumption, small size, lightweight. Suitable for various measurement, marine equipment

### ■Applications

Telecommunication equipment, base station for cellular phone.

### ■Specifications

Note : Modified specifications are available upon request for specific applications.



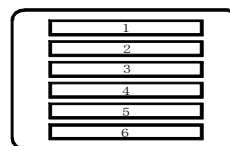
Item	Specifications	
Model name	TOP21VT	TOP21VS
Size	36.1×27.2×19.4 (mm)	
Output frequency	6.4MHz / 9.6MHz / 10.0MHz / 13.0MHz / 26.0MHz	
Supply voltage	12.0 ±5% (V)	
Current consumption	During warm-up 200mA / Normal operation 100mA	
Output level	Hi 4.5 min. / Lo 0.4 max	0(dBm) min
Load	4TTL	50 Ω
Symmetry	40 to 60 (%): 2.5V Level	-----
Operating	-10 to +60 °C	
Frequency temperature characteristics	± 0.1max. (ppm) :-10 to +60°C	
Frequency shift by supply voltage	± 0.05max. (ppm) : DC=12V±5%	
Voltage controlled range	±1.0 to ±3.0 (ppm): Vc=0 to 10V at Vcc=12V	
Phase noise	Table - 1	
Short-term frequency stability	1.0 max. (ppb): t=1.0s	
Aging	± 0.5max. (ppm) / year	

### ■Table-1 Phase Noise

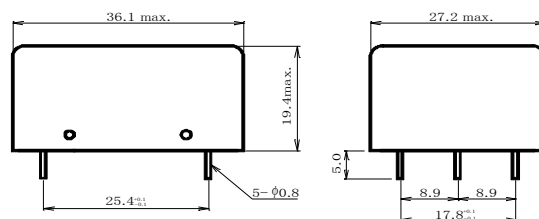
Offset	Phase Noise	
Model Name	TOP21VT	TOP21VS
1Hz	-80(dBc/Hz)	-80(dBc/Hz)
10Hz	-120(dBc/Hz)	-120(dBc/Hz)
100Hz	-130(dBc/Hz)	-130(dBc/Hz)
1kHz more	-140(dBc/Hz)	-150(dBc/Hz)

at Fs = 10.0MHz

### ■Outline



Marking  
 1 Model  
 2 Frequency  
 3 Spec No.  
 4 Serial No.  
 5 Lot Number  
 6 Manufacture's Name



Pin Connection  
 1 External voltage 0 to +10V  
 2 Reference voltage +5V or NC  
 3 Supply voltage +12V  
 4 RF-output  
 5 Ground / Case

The ordering number will be obtained separately by customer's requirement.