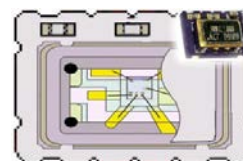


ACT751T-4, ACT751VT-4 Clipped Sine Wave TCXO/VCTCXO

- Stability: $\pm 1.5\text{ppm}$
- VCXO: $\pm 5, \pm 10\text{ppm}$ tuning
- Aging: $\pm 1.0\text{ppm}$



Characteristics

Frequency Range (MHz)	12 ~ 26
Supply voltage $\pm 5\%$ Vcc (V _{DC})	3.3 to 5.0
Operating temperature Top (°C)	Table 1
Operating Current (mA max)	2.0
Stability v T op (ppm)	Table 1
Stability v Vcc(ppm)	± 0.3 (5%)
Stability v Load (ppm)	± 0.3 (10%)
Aging @25°C (ppm)	$\pm 1.0/\text{yr}$
Load $\pm 10\%$	CSW: 10K Ω /10pF
Output voltage (V)	0.8 p-p max (3.3V), 1.0 p-p max (5V)
Start up time (ms, max)	2.5 max 2.0 typ

VCTCXO only

Slope / Linearity	Positive / 10%
Control voltage (V _{DC})	1.65 $\pm$ 1.65 to 2.5 $\pm$ 2.5
Frequency Tuning (ppm)	$\pm 5, \pm 10$

Rating

Storage temperature (°C)	-40~+85
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Notes:

ESD sensitive, take appropriate precautions.

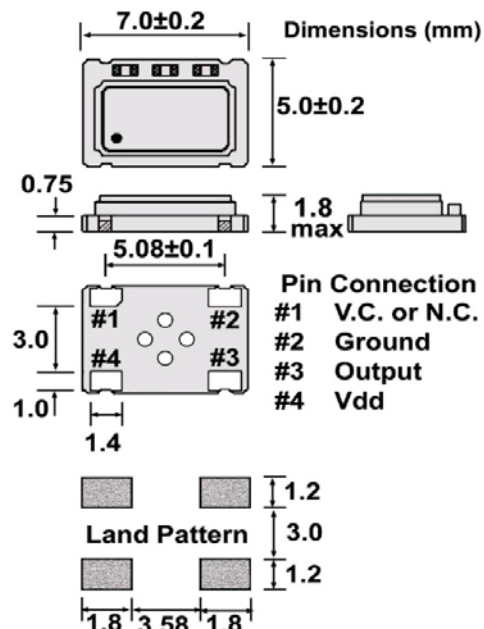
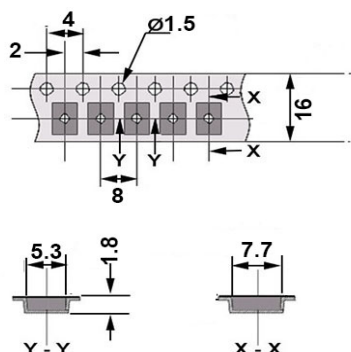
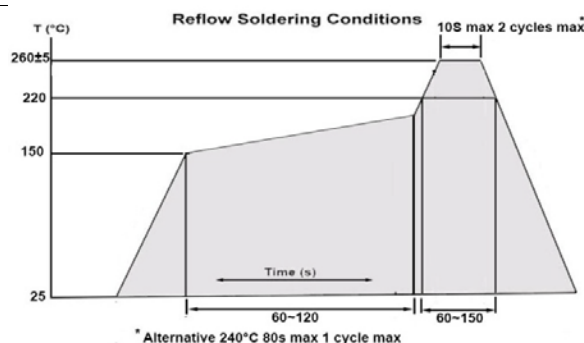
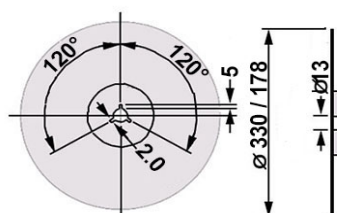


Table 1	Stability (ppm)								
Temperature°C	± 1.0	± 1.5	± 2.0	± 2.5	± 3.0	± 3.5	± 4.0	± 4.5	± 5.0
0~50	✓	✓	✓	✓	✓	✓	✓	✓	✓
-10~60		✓	✓	✓	✓	✓	✓	✓	✓
-10~70		✓	✓	✓	✓	✓	✓	✓	✓
-20~70			✓	✓	✓	✓	✓	✓	✓
-30~70				✓	✓	✓	✓	✓	✓
-30~75				✓	✓	✓	✓	✓	✓
-40~80				✓	✓	✓	✓	✓	✓
-40~85				✓	✓	✓	✓	✓	✓



Tape & Reel Dimensions (mm)



To specify: Please refer to part numbering system appended to the end of this data

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07/10/2013

ACT751T-4 , ACT751VT-4 Clipped Sine Wave TCXO/VCTCXO

TCXO PART NUMBERING

VT78	2700	F	B	D	N	B	X	X		Z	C	-PF
751T	27.00MHz	±5 ppm	3.3 V _{DC}	0 +50 °C	None	CSW	None	Pos	Not spec	%	1000	RoHS

751T	VT78
------	------

Stability v T _{OP} ±ppm	
5.0	F
4.0	J
3.5	K
3.0	L
2.5	M
2.0	N
1.5	O
1.0	P

T _{OP} °C	
0 +50	D
-10 +60	F
-10 +70	C
-20 +70	B
-30 +70	T
-30 +75	W
-40 +80	K
-40 +85	I

Polarity	
None	X

Commodity Code
854370 70 99

Standard

V _{CC} V _{DC}	
3.3	B
5	A
Free	O
A voltage within the range must be specified.	

Frequency tuning	
None	N

Output	
CSW	B

Duty Cycle % / %	
Not specified	Z

Frequency:

Please enquire if the frequency/stability combination has been developed.
 For part numbering use the first 4 characters of the frequency in Hz i.e. 27MHz = 27000000Hz so the code used in the part number is 2700. If the frequency is 100MHz or higher then the first 5 characters are used.
 It is important to suffix the part number

Mechanical Tuning ±ppm	
None	X

Tape & Reel	
1000	C
Loose	L

Example

VT78 - 2700FBDNBXXZC-PF 27.00MHz

Table 1 Temperature °C	Stability (ppm)								
	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0
0~50	✓	✓	✓	✓	✓	✓	✓	✓	✓
-10~60		✓	✓	✓	✓	✓	✓	✓	✓
-10~70		✓	✓	✓	✓	✓	✓	✓	✓
-20~70			✓	✓	✓	✓	✓	✓	✓
-30~70				✓	✓	✓	✓	✓	✓
-30~75				✓	✓	✓	✓	✓	✓
-40~80				✓	✓	✓	✓	✓	✓
-40~85				✓	✓	✓	✓	✓	✓

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ACT751T-4 , ACT751VT-4 Clipped Sine Wave TCXO/VCTCXO

VCTCXO PART NUMBERING

T78	2700	F	B	D	E	B	X	D	P	E	Z	C	-PF
751VT	27.00MHz	±5 ppm	3.3 V _{DC}	0 +50 °C	cntl only	cs	W	± ppm	Pos	± %	specified %	1000	RoHS

751VT	T78
-------	-----

Stability v T _{OP} ±ppm
5.0 F
4.0 J
3.5 K
3.0 L
2.5 M
2.0 N
1.5 O
1.0 P

T _{OP} °C	
0 +50	D
-10 +60	F
-10 +70	C
-20 +70	B
-30 +70	T
-30 +75	W
-40 +80	K
-40 +85	I

Electrical Tuning ±ppm
5 D
10 F

Commodity Code
854370 70 99

Standard

V _{CC} V _{DC}	
3.3	B
5	A
Free	O
A voltage within the range must be specified.	

Frequency tuning
V cntl only E

Polarity
Positive P

Linearity ±%
10 E

Duty Cycle % / %
Not specified Z

Output CSW
B

Mechanical Tuning ±ppm
None X

Tape & Reel
1000 C
Loose L

Frequency:

Please enquire if the frequency/stability combination has been developed.
For part numbering use the first 4 characters of the frequency in Hz i.e. 27MHz = 27000000Hz so the code used in the part number is 2700. If the frequency is 100MHz or higher then the first 5 characters are used.
It is important to suffix the part number

Example

T78 - 2700FBDEBXDPEZC-PF 27.00MHz

Table 1	Stability (ppm)								
Temperature°C	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0
0-50	✓						✓	✓	✓
-10-60		✓	✓	✓	✓	✓	✓	✓	✓
-10-70		✓	✓	✓	✓	✓	✓	✓	✓
-20-70			✓	✓	✓	✓	✓	✓	✓
-30-70				✓	✓	✓	✓	✓	✓
-30-75				✓	✓	✓	✓	✓	✓
-40-80				✓	✓	✓	✓	✓	✓
-40-85				✓	✓	✓	✓	✓	✓

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