

FT2GV

(Former FOX251)

2.5mm x 2.0mm

GPS VCTCXO



Features

- Analog Temperature Compensation
- Enable/Disable - Standby

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (MHz)	8.0 ~ 52.000
Temperature Range	
Operating (T _{OPR})	-30°C ~ +85°C
Storage (T _{STG})	-40°C ~ +85°C
Supply Voltage (V _{DD}) (±5%)	1.8V; 3.0V
Input Current (I _{DD}) 8 ~ 32MHz	1.5mA
>32 ~ 52MHz	2.0mA
Initial Frequency Tolerance @ 25°C (after reflow) (T2GV: V _c = V _{DD} /2) ¹	±2.0 PPM
Frequency Stability	
Over Temperature Range	±0.5 PPM
Over Supply Voltage Change (V _{DD} ±5%)	±0.1 PPM
Over Load Change (15pF±-10%)	±0.1 PPM
Frequency Slope -30°C ~ +85°C	±0.1PPM/°C
-20°C ~ +65°C	±0.05PPM/°C
Output Voltage Level	0.8V _{p-p} min
Output Load	[10kΩ//10pF]±-10%
Aging per year	±1.0 PPM
Startup Time (T _s)	2.0 mS
Phase Noise @ 1kHz offset	-130 dBc/Hz Typical
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead-Free	Yes
RoHS/REACH Compliant	Yes

DIMENSIONS / MECHANICAL SPECIFICATIONS
<p>Top View</p>
<p>Side View</p>
<p>Bottom View</p>
<p>Solder Pad Layout</p>
<p>Dimensions in mm</p> <p>Pin Connections #1 V_c #2 N.C. #3 Gnd #6 V_{dd} #5 N.C. #4 Out</p>
<p>*Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellation's, reference pin shape, etc. may vary *All specifications subject to change without notice.</p>

Note: A ≥1nF (10nF recommended) DC-Cut capacitor shall be connected to the output.

FT2GV

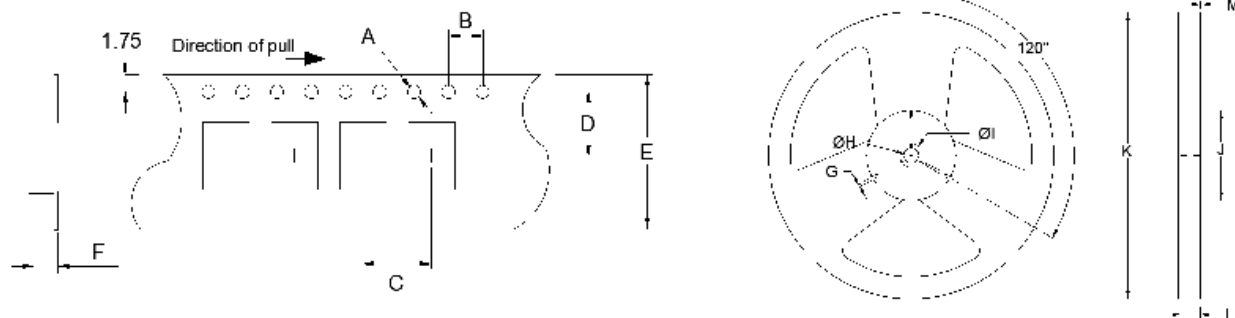
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.5	ø13	ø20.2	ø60	ø180	9.0	1.4



Available Options & Part Identification for TCXO Model T2CN¹

Sample PN: **FT2GV^{DUK26.0-T3}**

F	T2GV	D	U	K	26.0	-T3
<u>Fox</u>	<u>Model Number</u> T2GV = VCTCXO	<u>Tolerance</u> D = +3.0V±5% K = +1.8V±5%	<u>Stability</u> U = ±0.5 PPM	<u>Operating Temperature</u> K = -30 to +85°C M = -40 to +85°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs T3 = 3,000 pcs

¹ Not all frequencies in the frequency range available.

Reliability Test Conditions

Please contact Abracon Quality Assurance department