imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Oscillator JT33(V) · (VC)TCXO

- Temp. Compensated Crystal Oscillator, 3.2 x 2.5 mm - low power VCTCXO or TCXO
- temperature range -40 °C ~ +85 °C available - ± 1.0 ppm stability available
- ceramic/metal package





Conflict

GENERAL DATA

ТҮРЕ		JT33 / JT33V		
frequency range		8.0 ~ 52.0 MHz		
frequency tolerance/ stability	at +25°C	± 1.5 ppm (incl. 2x reflow)		
	temperature	± 1 ppm ~ ± 5 ppm (table 1)		
	aging first year	±1 ppm		
	supply voltage	\pm 0.2 ppm (at V $_{\rm DC}$ ±5 %)		
	load change	± 0.2 ppm		
current consumption		2.5 mA max.		
supply voltage $V_{_{DC}}$		1.8 / 2.5 / 2.8 / 3.0 / 3.3 (±5 %)		
temperature	operating	see table 1		
	storage	-40 °C ~ +85 °C		
output	load nom.	10 KΩ // 10 pF		
	level min.	0.8 Vpp (clipped sine)		
external tunin	g range JT33V	±8 ppm min.		
external tunin	g voltage JT33V	0.9 V ± 0.9 V at V $_{\rm DC}$ = 1.8 V (standard)		
		1.5 V ± 1.0 V at $V_{DC} \ge 2.5$ V (standard)		
		1.4 V ± 1.0 V at $V_{DC} \ge 2.5$ V (option)		
start-up time max.		2.5 ms		
phase noise	at 100 Hz	-109 dBc/Hz typ.		
at fo	at 1 KHz	-133 dBc/Hz typ.		
26 MHz at 10 KHz		-148 dBc/Hz typ.		

TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE						
	frequency stability code / ppm					
operating	Y	Z	А	В	С	D
temperature code	± 5.0	± 3.0	± 2.5	± 2.0	± 1.5	± 1.0
A: -30 °C ~ +80 °C	0	0	0	0	0	0
B: -20 °C ~ +70 °C	0	0	0	0	0	0
C: -10 °C ~ +60 °C	0	0	0	0	0	0
D: 0°C ~ +85°C	0	0	0	0	0	0
E: 0°C ~ +55°C	0	0	0	0	0	0
F:-10°C~+70°C	0	0	0	0	0	0
G: -30 °C ~ +75 °C	0	0	0	0	0	0
H:-20°C~+75°C	0	0	0	0	0	0
K: -40 °C ~ +85 °C	0	0	0	0		
L:-20°C~+85°C	0	0	0	0	0	0
M: -30 °C ~ +85 °C	0	0	0	0		

O on request

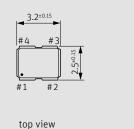
NOTE

- TCXO JT33: pin #1 connected to GND

- VCTCXO JT33V: pin #1 is control voltage V_c

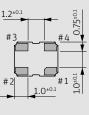
- external AC coupling for output recommended

DIMENSIONS





side view



bottom view

1.3±0. 1.0^{±0.1} pad layout

TCXO	VCTCXO
JT33	JT33V
# 1: GND	# 1: Vcontrol
# 2: GND	# 2: GND
# 3: output	# 3: output
# 4: V _{DC}	# 4: V _{DC}
DC	DC

pin connection

ORDER INFORMATION

0	frequency	- type	_ frequency stability	- 1 0 1	 supply voltage 	control voltage
			code	code		(for JT33V only)
Oscillator	8.0 ~ 45.0 MHz	JT33 = TCXO	A - Z	A - M	1.8 = 1.8 V	$0.9 = V_{c} 0.9 V \pm 0.9 V \text{ at } V_{DC} = 1.8 V$
		JT33V = VCTCXO	see table 1	see table 1	2.5 = 2.5 V 2.8 = 2.8 V	$1.5 = V_c \ 1.5 \ V \pm 1.0 \ V \text{ at } V_{DC} \ge 2.5 \ V$ $1.4 = V_c \ 1.4 \ V \pm 1.0 \ V \text{ at } V_{DC} \ge 2.5 \ V$
					3.0 = 3.0 V	see General Data
Example: O 26.O-JT33V-A-G-3.3-1.5-LF (Suffix LF = RoHS compliant / Pb free)				3.3 = 3.3 V		

Example: 0 26.0-JT33V-A-G-3.3-1.5-LF (Suffix LF = RoHS compliant / Pb free)



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full data can be found under:

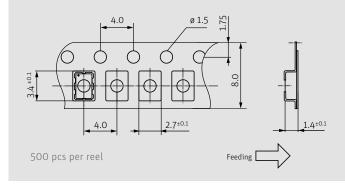
www.jauch.de | www.jauch.co.uk | www.jauch.fr | www.jauchusa.com

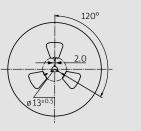
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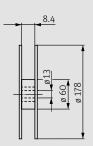
in mm

Oscillator JT33(V) · (VC)TCXO

TAPING SPECIFICATION

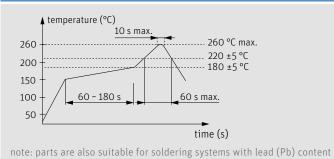






in mm

REFLOW SOLDERING PROFILE



type / frequency

MARKING

company code / data code date code: A ~ M: Jan. - Dec.

7: 2017	8: 2018	9: 2019	0: 2020	1:2021	2: 2022
Jan.	Febr.	Mar.	Apr.	May	June
А	В	С	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	Н	J	К	L	М

PACKAGING NOTE

- standard packing unit is 500 pieces per reel
- non-multiple packing units are only supplied taped / bulk



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