



actual size

Oscillator JT11GLE · GPS TCXO

- temp. compensated crystal Oscillator, 1.6 x 1.2 mm
- special type for navigation systems (GPS etc.)
- low voltage 1.2 V ~ 1.8 V, with clipped sine output
- high stability ± 0.5 ppm, temperature range up to -40 °C ~ $+85$ °C
- with enable / disable function



RoHS compliant



Pb free



REACH compliant



Conflict mineral free

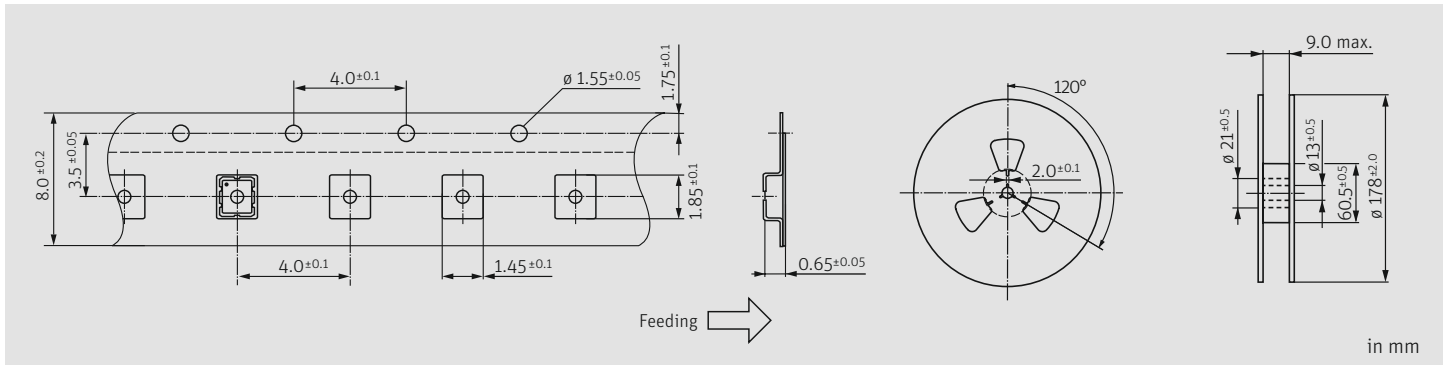
GENERAL DATA		ENABLE / DISABLE FUNCTION	
TYPE	JT11GLE TCXO with E/D	PIN #1 (E/D CONTROL)	PIN #3 (OUTPUT)
frequency range	26.0 / 52.0 MHz (other frequ. case by case)	high "1" ($V_{IH} \geq 0.8 V_{DC}$)	active (see information below)
frequency tolerance/ stability	at +25°C	low "0" ($V_{IL} \leq 0.2 V_{DC}$)	high impedance
	temperature	stop function of JT11GLE:	
	aging first year	- oscillator stops	
	supply voltage	- output high impedance	
	load change	- disabled supply current: 1µA max.	
max. current consumption	at 1.2 V: 2.0 mA at 26.0 MHz / 2.5 mA at 52.0 MHz at 1.8 V: 2.5 mA at 26.0 MHz / 3.0 mA at 52.0 MHz	important: to activate the JT11GLE TCXO permanently, please connect an external pull-up resistor of 10 kOhm to pin #1	
supply voltage V_{DC}	1.2 V -5 % ~ 1.8 V +5 % (variable)	NOTE	
temperature	operating	- JT11GLE: pin #1 is enable/disable, external pull-up resistor required	
		- for navigation applications at higher supply voltages 1.8 V / 2.5 V / 3.3 V please refer to JT11G	
output	load nom.	- for standard applications at low supply voltages 1.2 V ~ 1.8 V please refer to JT11LE	
	level min.	- external AC coupling for output recommended	
temperature slope max.	0.1 ppm / °C (at max. temp step 2 °C)	- for best supply noise rejection, connect a capacitor closely to the supply voltage pins	
static frequency hysteresis	0.6 ppm max. (* see note)	- a separate voltage supply rail ensures best phase noise	
start-up time max.	3.0 ms	* maximal difference at +25°C, measured before and after a full cold-hot-cold cycle	
enable time max.	3.0 ms	PACKAGING NOTE	
disable time max.	150 ns	- standard packing unit is 3000 pieces per reel	
phase noise at f_o 26 MHz	at 100 Hz	- customized quantities on request	
	at 1 KHz		
	at 10 KHz		

DIMENSIONS				
				TCXO with e/d JT11GLE # 1: e/d # 2: GND # 3: output # 4: V_{DC}
top view	side view	bottom view	pad layout	pin connection in mm

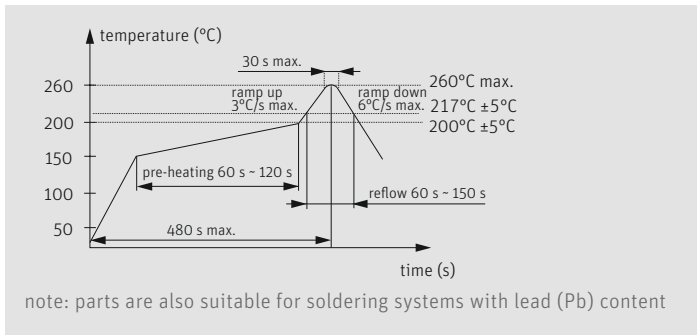
ORDER INFORMATION					
0	frequency	type	frequency stability code	operating temp. code	supply voltage
Oscillator	26.0 = 26.0 MHz 52.0 = 52.0 MHz	JT11GLE	E = ± 0.5 ppm	M = -30 °C ~ $+85$ °C K = -40 °C ~ $+85$ °C	V = variable supply voltage 1.2 V -5 % ~ 1.8 V +5 %
Example: 0 26.0-JT11GLE-E-M-V-LF (Suffix LF = RoHS compliant / Pb free)					

Oscillator JT11GLE · TCXO for GPS

TAPING SPECIFICATION



REFLOW SOLDERING PROFILE



MARKING

frequency

company code / stability code / date code

date code: A ~ M: Jan. - Dec.

4: 2024 5: 2025 6: 2026 7: 2027 8: 2028 9: 2029

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	H	J	K	L	M