



actual size

Oscillator · TCXO · JT53C

TCXO with HCMOS output · 5.0 x 3.2 mm

- excellent phase noise
- operating temperature range -40 °C ~ +85 °C
- reflow soldering temperature: 260 °C max.
- ceramic/metal package



RoHS compliant

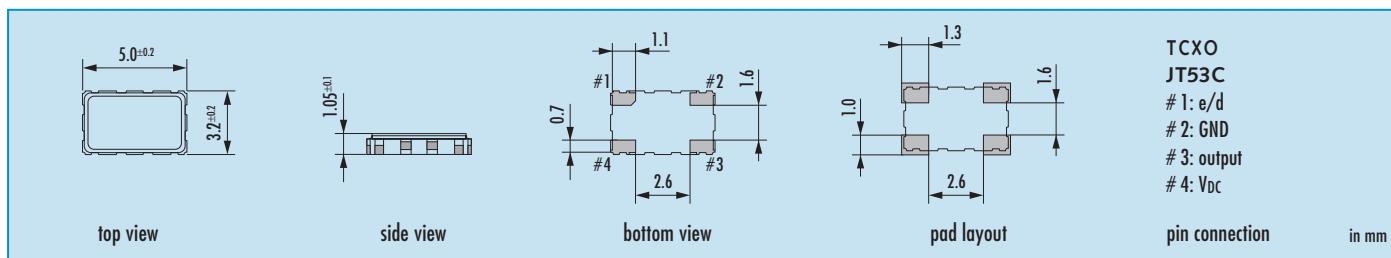


Pb free: pins / pads

General Data

type		JT53C
frequency range		4.0 ~ 54.0 MHz
frequency	at +25 °C	± 0.5 ppm
stability	temperature	± 2.5 ppm (others on request)
	aging first year	± 1.0 ppm
	supply voltage	± 0.2 ppm (at V _{DC} ± 5 %)
load change	load change	± 0.2 ppm
	after reflow	± 1.0 ppm
current consumption max.		→ see table 1
supply voltage V _{DC}		2.5 / 2.8 / 3.3 (± 5 %)
temperature	operating	-30 °C ~ +75 °C / -40 °C ~ +85 °C
	storage	-40 °C ~ +125 °C
output	rise & fall time	5.0 ns max.
	load max.	15 pF
	current max.	4.0 mA
	low level max.	0.1 x V _{DC}
	high level min.	0.9 x V _{DC}
harmonics distortion max.		-5.0 dBc
symmetry at 0.5 x V _{DC}		45 % ~ 55 % max.
start-up time max.		10 ms
standby current max.		10 µA
output enable time max.		10 ms
output disable time max.		250 ns
Jitter 1σ		3.0 ps
phase noise at 10 kHz offset		-145 dBc/Hz

Dimensions



Order Information

0	frequency in MHz	type	frequency stability code	operating temp. code	supply voltage
Oscillator	4.0 ~ 54.0 MHz	JT53C = TCXO	A = ± 2.5 ppm	G = -30 °C ~ +75 °C K = -40 °C ~ +85 °C	2.5 = 2.5 V 2.8 = 2.8 V 3.3 = 3.3 V
Example: O 16.3680-JT53C-A-K-3.3-LF (Suffix LF = RoHS compliant / Pb free pads)					



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