

# DATASHEET



<b>PART NO.</b>	20-0151
<b>PART DESCR.</b>	O-SMD3225-M4-24.000000 MHz-1.3-50-4085

REFERENCES	
<b>MANUFACTURER</b>	UTECH
<b>MFR. PART NO.</b>	

PRODUCT IMAGE	MARKING DIMENSION

TECHNICAL SPECIFICATION	
<b>A 1.00 Manufacturer Name</b>	UTECH
<b>A 1.02 Description</b>	Quartz Crystal Oscillator
<b>A 1.03 Series</b>	QOS3
<b>A 1.04 Dimension &amp; Type</b>	MHz   SMD3225 (3.2 x 2.5 mm) ---
<b>A 1.05 VPE</b>	TR3000
<b>A 1.06 Date Created</b>	2026-04
<b>A 1.07 Last Update</b>	2026-04
<b>O 3.01 Nominal Frequency (Fo)</b>	24.000000 MHz
<b>O 3.02 Supply Voltage (VDD)</b>	1.3 V
<b>O 3.03 Input Current</b>	4 mA
<b>O 3.04 Frequency Stability Over All *</b>	±50 ppm
<b>O 3.05 Operating Temp. Range</b>	-40°C ~ +85°C
<b>O 3.07 Output Logic</b>	HCMOS
<b>O 3.08 Output Load</b>	15pF
<b>O 3.09 "1" Level</b>	0.4 V
<b>O 3.10 "0" Level</b>	VDC - 0.4V
<b>O 3.11 Symmetry</b>	45 / 55
<b>O 3.12 Rise / Fall Time</b>	6ns max.
<b>O 3.13 Output Disable / Enable Delay Time</b>	200 ns
<b>O 3.14 Start-up Time</b>	1 ms / 0.5 ms (t0 when VDC > 1.62 V)

CERTIFICATIONS		
<p>RoHS Compliant</p>	<p>ISO 9001:2000 certified by SGS</p>	<p>ISO 14001:2004 certified by SGS</p>