

**XZ micro miniature  
ultra thin smd crystal  
(20.0 ~ 50.0)MHz**

- (2.05 x 1.65)mm, height 0.45mm
- ceramic package, vacuum seal
- 8mm tape and reel, 3000 pieces per reel
- RoHS compliant

**Electrical specification**

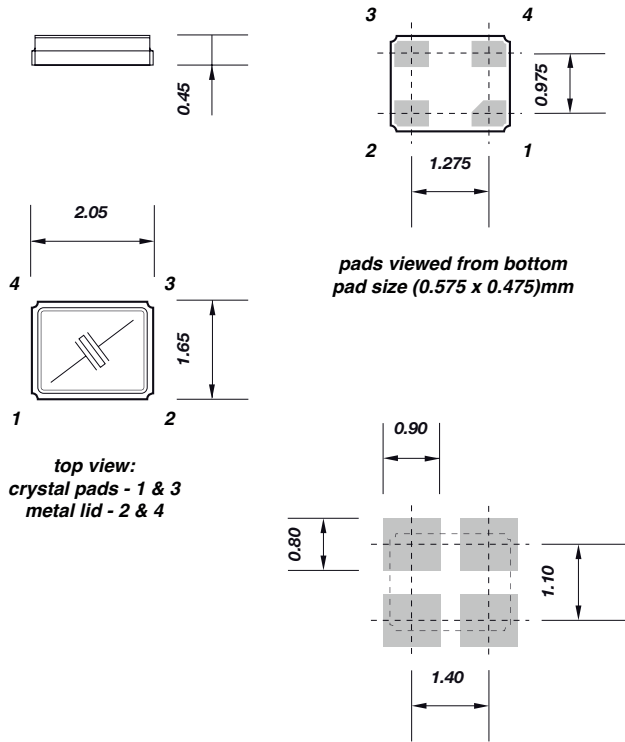
<b>case style</b>	XZ: (2.05 x 1.65)mm, height 0.45mm
<b>frequency range</b>	(20.0 ~ 50.0)MHz fundamental
<b>standard frequencies</b>	26.00MHz, 30.00MHz, 32.00MHz
<b>adjustment tolerance</b>	from $\pm 10$ ppm at +25°C, temperature range dependent
<b>temperature tolerance</b>	from $\pm 5$ ppm(-10 +60)°C
<b>operating temperature</b>	(-10 +60)°C ~ (-40 +85)°C
<b>storage temperature</b>	(-55 +125)°C
<b>load</b>	customer specified
<b>shunt capacitance <math>C_0</math></b>	3.0pF max.
<b>drive level</b>	10 $\mu$ W typical, 100 $\mu$ W max.
<b>ageing</b>	$\pm 3$ ppm per year
<b>insulation resistance</b>	500Meg. ohm min. at+100Vd.c.

**Ordering information**

<b>EXAMPLE</b>	XZ crystal, 26.00MHz, load 20pF, $\pm 10$ ppm at +25°C, $\pm 10$ ppm(-10 +60)°C
<b>TFC PART NUMBER</b>	XZ 26.00M H B B I
<b>XZ</b>	crystal series: XZ
<b>26.00M</b>	frequency: 26.00M = 26.00MHz, frequency range from (20.0 ~ 50.0)MHz
<b>H</b>	load capacitance: H = 20pF
<b>B</b>	adjustment tolerance at +25°C: C = $\pm 10$ ppm
<b>B</b>	temperature tolerance: B = $\pm 10$ ppm
<b>I</b>	temperature range: I = (-10 +60)°C
<b>OPTIONS</b>	
<b>load capacitance</b>	A: 8pF, B: 9pF, C: 10pF, D: 12pF, F: 16pF, G: 18pF, H: 20pF, I: 30pF, J: 32pF, S: series
<b>adjustment tolerance</b>	B: $\pm 10$ ppm, P: $\pm 15$ ppm, C: $\pm 20$ ppm, D: $\pm 25$ ppm, E: $\pm 30$ ppm, G: $\pm 50$ ppm, H: $\pm 100$ ppm
<b>temperature tolerance</b>	A: $\pm 5$ ppm, B: $\pm 10$ ppm, C: $\pm 20$ ppm, D: $\pm 25$ ppm, E: $\pm 30$ ppm, G: $\pm 50$ ppm, H: $\pm 100$ ppm
<b>temperature range</b>	I: (-10 +60)°C, C: (-20 +70)°C, L: (-40 +85)°C

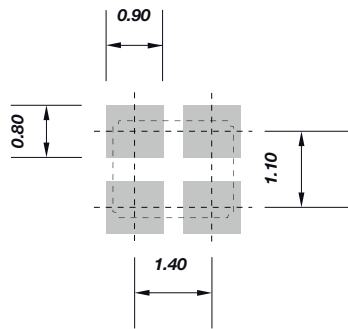
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**XZ dimensions(mm)**



**pads viewed from bottom  
pad size (0.575 x 0.475)mm**

**top view:  
crystal pads - 1 & 3  
metal lid - 2 & 4**



**suggested land pattern**

**pads are gold 2.5µ min. over nickel,  
suitable for vapour phase or reflow  
soldering**

**ESR - equivalent series resistance**

frequency range(MHz)	cut/mode	esr(Ω)
20 ~ 30	AT1	<100
30 ~ 50	AT1	<80