TSQ-3225SMD

FEATURES

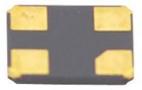
Rugged AT-cut crystal construction: Embossed taping specification

Miniature 3.2×2.5mm ceramic package

Pb-free and RoHS/Green compliant

Designed for automatic mounting and reflow soldering





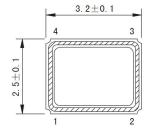
S P E C I	F I C A T I O N S	
Holder Type	3.2x2.5mm Ceramic Surface Mount	
Frequency Range	12MHz to 54MHz	
Frequency Tolerance (ΔF) (at25°C)	± 10 ppm to ± 30 ppm	
Frequency Drift	±10ppm to ±30ppm [*] (See Notes)	
Operating Temperature Range	-20°C - +70°C /-40°C - +85°C	
Storage Temperature Range	-40°C - +85°C /-55°C - +125°C	
Aging (25°C)	±3ppm/ year max.	
Shunt Capacitance (C0)	3pF max.	
Drive Level	10μw (100μW max.)	
Insulation Resistance (Rs)	500 Mega ohms Minimum at D.C100V	
Load Capacitance (CL)	Suggested by customer	

%Notes: ± 10 , ± 20 , ± 30 ppm (-20° C to $+70^{\circ}$ C)

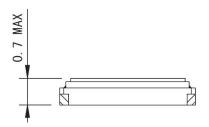
 ± 20 , ± 30 , ± 50 ppm (-40°C to +85°C) or depends on customer

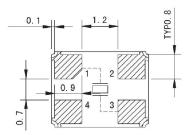
EQUIVALENT SERIES RES	SISTANCE(ESR) AND	MODE OF OPERATION
Frequency Range	$\mathbf{ESR}(\mathbf{\Omega})$	Mode
$12.000 \text{MHz} \le f < 16.000 \text{MHz}$	100max	Fundamental
$16.000 \text{MHz} \le f < 20.000 \text{MHz}$	80max	Fundamental
$20.000MHz \le f < 24.000MHz$	60max	Fundamental
$24.000MHz \le f < 54.000MHz$	40max	Fundamental

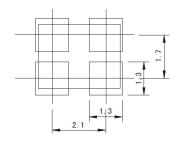
Mechanical Dimensions Unit: mm











Note) #2, #4 is connected with a cover

(Please connect with a GND or a power supply)

Suggested solder pad

Note: Specification are subject to change without notice. For more detail and update, please visit our website.