

## FEATURES

- HIGH RELIABILITY FOR LOW COST
- CHEAPEST AVAILABLE 5x3.2 MM CRYSTAL
- CERAMIC BODY WITH GLASS SEALED CERAMIC COVER
- EXCELLENT CLOCK SIGNAL GENERATUR FOR CPU'S
- CLOSE THE PRICE GAP BETWEEN METAL AND CERAMIC PACKAGED CRYSTALS

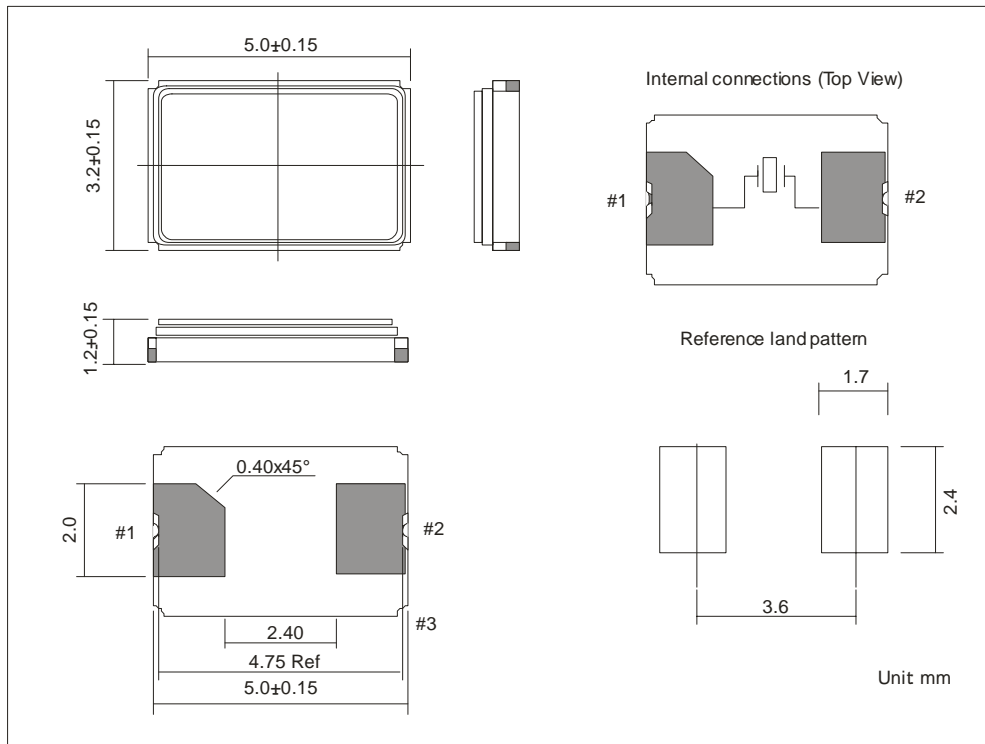
<b>MINI-SMD-CRYSTAL SERIES SMD0503/2CC</b>	5 x 3.2 x 1.2 mm with 2 solder pads
<b>STANDARD FREQUENCIES</b>	12.000 MHz; 14.31818 MHz; 20.000 MHz; 24.576 MHz; 25.000 MHz; 27.000 MHz; 30.000 MHz
<b>FREQUENCY RANGE</b>	OTHER FREQUENCIES AVAILABLE ON REQUEST
<b>MODE OF VIBRATION</b>	AT-FUNDAMENTAL
<b>RESONANCE RESISTANCE</b>	80 ~ 30 Ω max.
<b>FREQUENCY TOLERANCE AT 25°C</b>	≥+20 ppm
<b>WORKING TEMPERATURE RANGE</b>	0/+50°C ~ -40/+85°C
<b>TEMPERATURE STABILITY</b>	+15 ppm = 0/+50°C / -10/+60°C
	+20 ppm = 0/+50°C / -10/+60°C / -20/+70°C
	+30 ppm = 0/+50°C / -10/+60°C / -20/+70°C
	+50 ppm = 0/+50°C / -10/+60°C / -20/+70°C / -40/+85°C
<b>STANDARD LOAD CAPACITANCE (OTHER CL ON REQUEST AVAILABLE)</b>	12.000 MHz = 12pF; 16pF; 20pF
	14.31818 MHz = 12pF; 16pF; 20pF
	20.000 MHz = 12pF
	24.000 MHz = 12pF
	24.576 MHz = 16pF; 20pF
	25.000 MHz = 12pF; 20pF
	27.000 MHz = 20pF
30.000 MHz = 20pF	
<b>SHUNT CAPACITANCE</b>	7 pF max.
<b>DRIVE LEVEL</b>	100 μW max. (other drive levels are available on request)
<b>AGING</b>	+3 ~ +5 ppm per year
<b>INSULATION RESISTANCE</b>	>500 MΩ DC/100V +10%
<b>STORAGE TEMPERATURE</b>	-40/+85°C
<b>RoHS</b>	In accordance with the RoHS guideline 2002/95/EC, glass seal contain low share of Pb. Crystal is RoHS compliant.
<b>DELIVERY FORM</b>	Tape and Reel (1.000 pcs per reel)
<b>OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION</b>	

## PART NUMBERING SYSTEM

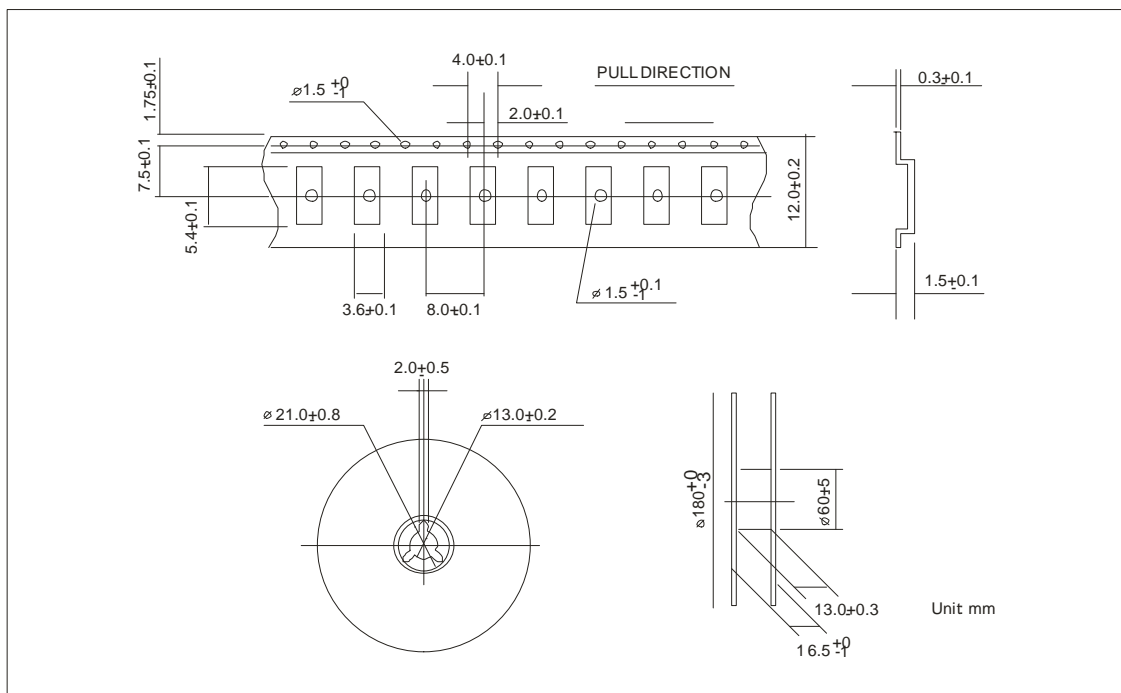
<b>EXAMPLE</b>	SMD0503/2CC 27.000 MHz 30/50/-20+70/20pF
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TYPE	SMD0503/2CC
FREQUENCY	IN MHZ
FREQUENCY TOLERANCE AT 25°C	REQUIRED VALUE
TEMPERATURE STABILITY	REQUIRED VALUE
TEMPERATURE RANGE	REQUIRED VALUE
LOAD CAPACITANCE	REQUIRED VALUE

**OUTLINE DRAWING**



**REEL SPECIFICATION**



### REFLOW SOLDER PROFILE

