



1,6 x 1,2 x 0,4mm



**SPECIFICATION:**

Frequency Range: 26,00 ~ 80 Mhz  
 Operation Mode: Fundamental  
 Operating Temperature: . -10°C to + 50°C (see options)  
 Storage Temperature: . -40°C to + 85°C  
 Frequency Tolerance: ± 50ppm max. (see options)  
 Frequency Stability: ± 50ppm max. (see options)  
 Equ. Serie Resistance: see ESR table  
 Shunt Capacitance: 5pf max.  
 Load Capacitance: 8pf (see options)  
 Drive Level: 100µ W. max.  
 Aging @ xx per Year . +/- 5ppm  
 Insulation Resistance: 500MΩ min. with 100Vdc ±15Vdc

**Technical and Mechanical Explanation**

Temperature cycling: . +/-5ppm max. -55°C to +85°C, 3Cycles, 2hours max. Reference 25°C.  
 Thermal Shock: . +85°C and -55°C. Exposure time at extreme temperature for 5 minutes, 3 cycles.  
 Vibration: Frequency with an amplitude of 1,5mm sweeping between 10Hz to 55Hz within 1 minute for 2 hours minimum on each axis (x,y,z)  
 Drop test: Natural drop on a hard wood board at 75cm , 3 times  
 Humidity: 85% RH at +85°C, 96 hours minimum  
 Marking permanency: Dip units in solvents, 10strokes with brush , 3 times  
 Fine leak test: Helium leak, <2E-8atm. Cc/sec.  
 Gross leak test: 100% in De-ionized water or Perfluorocarbon for 60s. Min.  
 Solderability: Dip in solder (255°C +/- 5°C for 5 seconds. More than 95% of surface being tested should be coated uniformly with solder.  
 Lead bend: Will with stand maximum bend of 90°C reference to base for 2 bends.

**Dimensions (mm)**

Length:	1.6mm
Wide:	1,2mm
Height	0,4mm

**Standard ESR table**

Frequency	ESR max.
26,00000 ~30,00000 Mhz	150 Ω
30,00001 ~ 80,00000Mhz	100 Ω

**Standard Frequencies**

26,00Mhz / 32,00Mhz / 36,00Mhz
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**SMD Quarz Crystal  
1,6x1,2mm**

Part No.: **O12054**

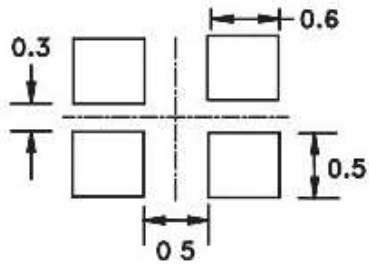
DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	09.11.2013	Customer:
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		1 from 4	



1.6 x 1.2 x 0.4mm

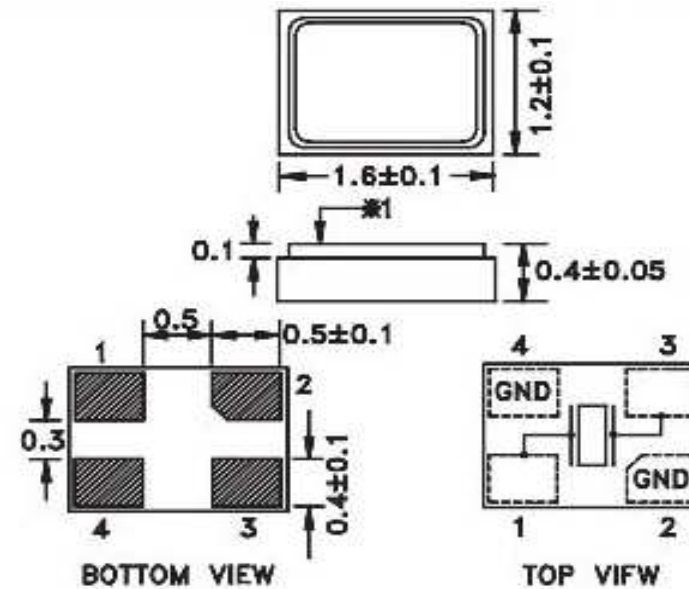


P.C.B Layout



Note 2, 4 are connected to the metal lid. Please connect to GND

Drawing

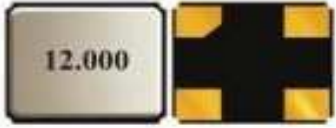


**Quarz Chrystal**

Part No.: **O12054**

Customer:

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	09.11.2013
APPD:	YQ	HHQ		FINISH	XM		Sheet No.	2 from 4	



1,6 x 1,2 x 0,4mm



**Ordering Informations**

Serie	Frequency	Frequency Tolerance (ppm)	Frequency Stability (ppm)	Oscillator Mode	Operating Temperature	Load Capacity	Rohs Conform	Packing		
<b>O12054</b>	<b>26M00000</b>	<b>B</b>	<b>2</b>	<b>A</b>	<b>1</b>	<b>A</b>	<b>R</b>	<b>TR</b>		

xMxxxxx Mhz (max 6 Letters)			A= Fund.	1= -10°C ~ +50°C	A= 8pf B= 10pf	R= Rohs Conform	BU= Bulk Ware
	B= 50ppm	2= 50ppm		2= -20°C ~ +70°C	C= 12,5pf D= 15pf	N= NON Rohs Conform	TR= Tape Reel
	C= 30ppm	3= 30ppm		3= -40°C ~ +85°C	E= 16pf F= 18pf		
	D= 20ppm	4= 20ppm			G= 20pf H= 22pf		
	E= 10ppm	5= 10ppm			I= 27pf J= 33pf		
					K= 33pf L= 30pf		

<b>SMD Quarz Crystal 1,6x1,2mm</b>	
Part No.:	<b>O12054</b>
Customer:	

DRW:	HQ	CHKD	Wilson	MATL:	WHX	TOLERANCE	John	DATE	09.11.2013
APPD:	YQ	HHQ		FINISH	XM		Sheet No.		3 from 4

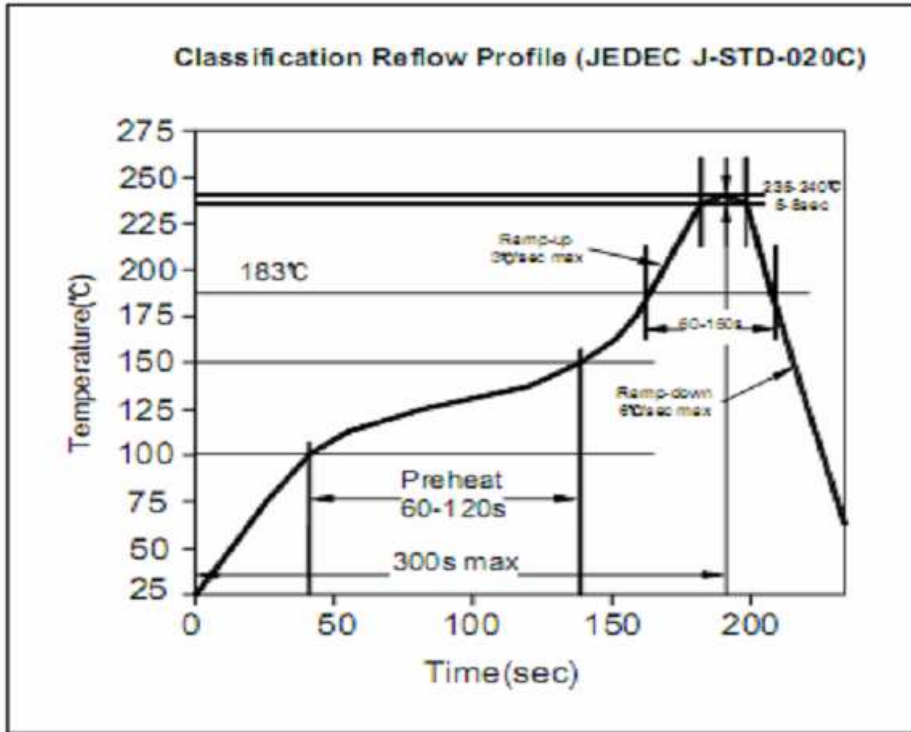


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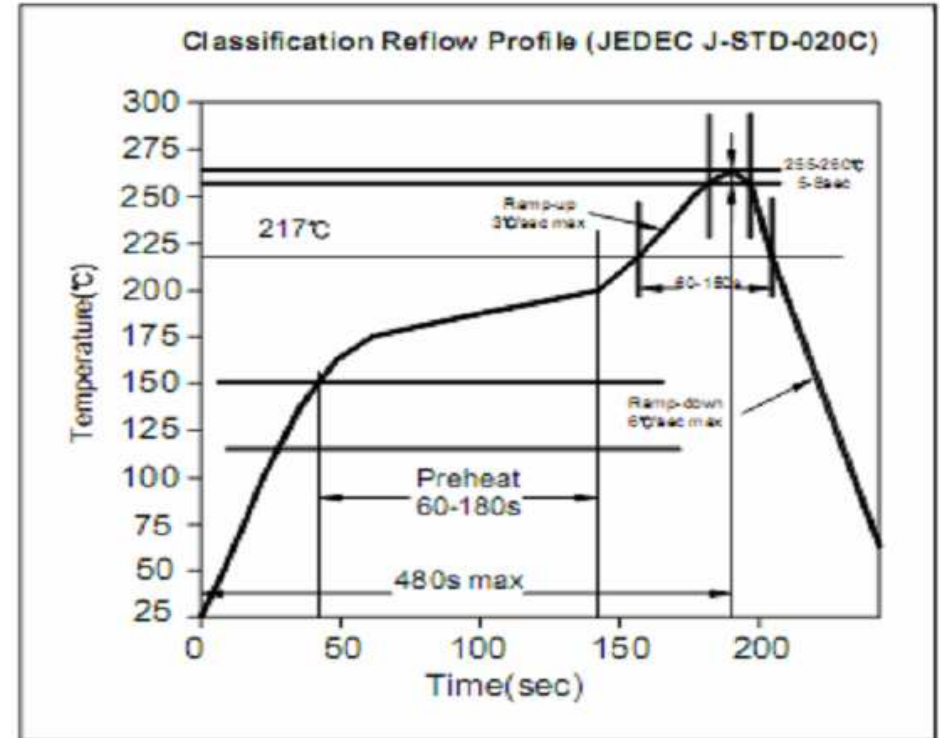


**Soldering Conditions**

**Lead Soldering Conditions**



**Lead Free Soldering Conditions**



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1,6x1,2mm**

Part No.: **O12054**

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APPD:	YQ	HHQ		FINISH	XM		Sheet No.	4 from 4	Customer: