

QUARTZ CRYSTALS

US ELECTRONICS INC.

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Ceramic SMD Crystal

- Four pad ceramic surface mount package
- AT cut
- Tight tolerance / stability
- Using highly reliable seam weld method
- Tape and reel available, automatic mountable



Standard Frequencies for US7050 Package:

USE Part #	Frequency (MHz)	Load cap.	Max.ESR
US7-080	8.0000	Series	70
US7-081	8.0000	20	70
US7-090	9.0000	Series	70
US7-098	9.8300	20	80
US7-100	10.0000	Series	70
US7-101	10.0000	30	70
US7-107	10.7386	32	70
US7-110	11.0592	Series	70
US7-120	12.0000	32	60
US7-122	12.2880	32	60
US7-143	14.3181	Series	60

Standard Frequencies for US7050 Package:

USE Part #	Frequency (MHz)	Load cap.	Max.ESR
US7-147	14.7456	Series	60
US7-150	15.0000	Series	60
US7-160	16.0000	20	50
US7-180	18.0000	Series	50
US7-184	18.4320	20	50
US7-185	18.4320	Series	50
US7-196	19.6608	Series	50
US7-200	20.0000	20	40
US7-221	22.1184	Series	40
US7-240	24.0000	Series	40

Standard Specifications:

Frequency Range	8.0 - 160 MHz
Vibration Mode	AT Cut Fundamental and third
Frequency Tolerance	+/- 0.005% (50 ppm) @ 25°C
Operating Temp Range and Frequency Stability	+/- 0.005% (50 ppm) over -20°C to 70°C
Shunt Capacitance	7pF maximum or special
Insulation Resistance	500Meg.Ohms
Aging	+/- 5 ppm / year
Package	Resistance weld low profile, 7.0x5.0x1.3mm SMD package

How To Order: 1. Pick a part# from the standard parts table or pick a frequency with in the range specified in the table above and specify the properties you need from the tables below to configure the part# you need.

2. If you need [Tape & Reel](#), add "TR" in the box specified at the end of the part number.

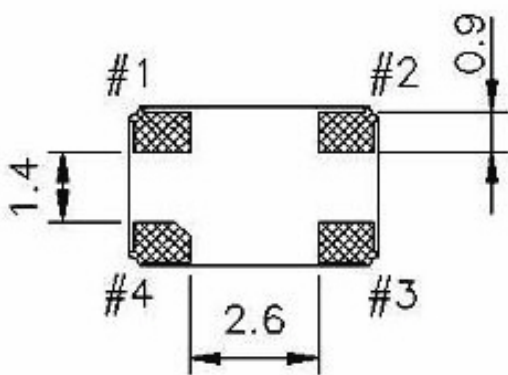
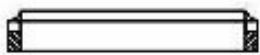
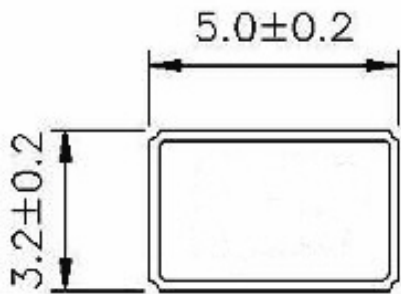
3.To [Place Order](#) specify part number and quantity.

CUSTOM PART NUMBERING SYSTEM

Frequency(MHz)

Tape & Reel

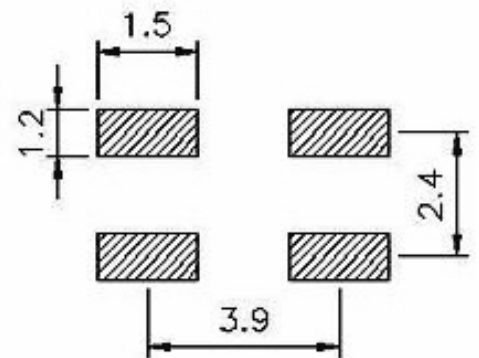
MECHANICAL DRAWING - S5032



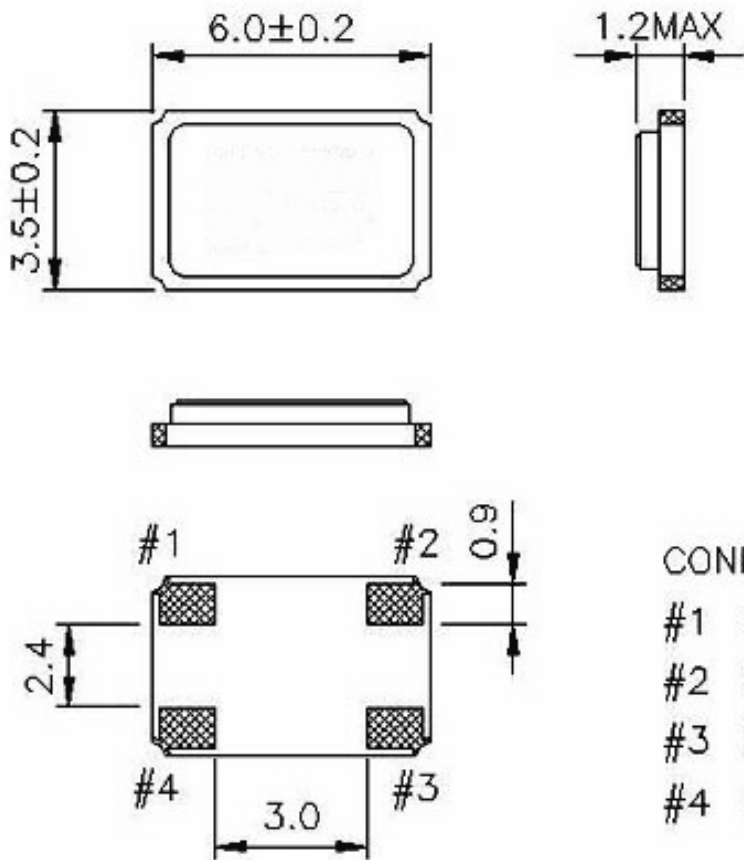
CONNECTION

- #1 X-TAL
- #2 GND
- #3 X-TAL
- #4 GND

LAND PATTERN

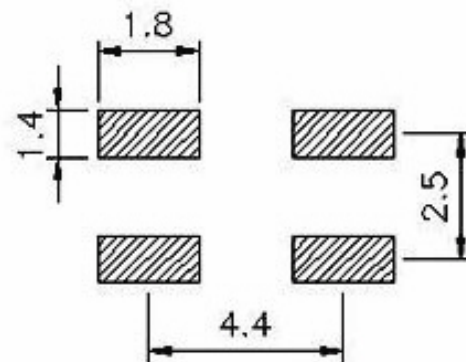


Ceramic SMD
MECHANICAL DRAWING - S6035

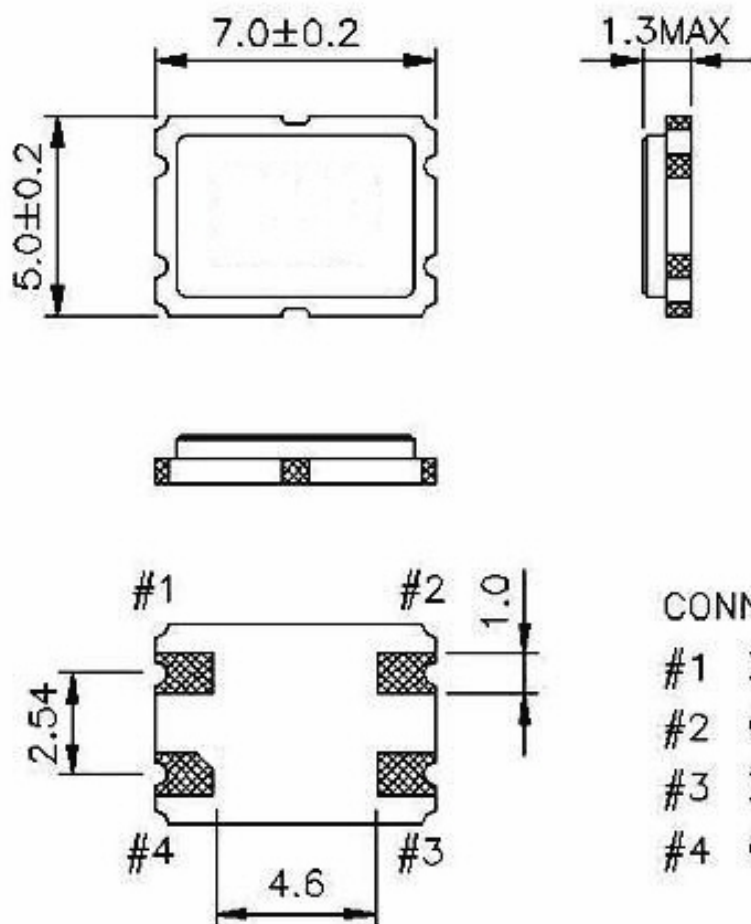


CONNECTION
 #1 X-TAL
 #2 GND
 #3 X-TAL
 #4 GND

LAND PATTERN

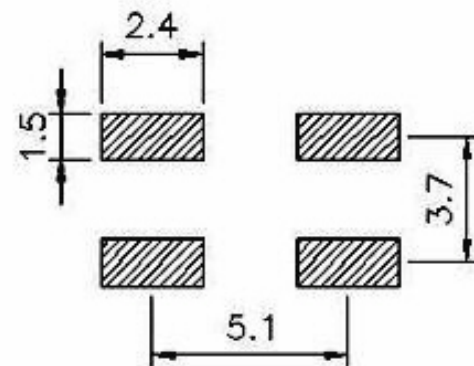


MECHANICAL DRAWING - S7050

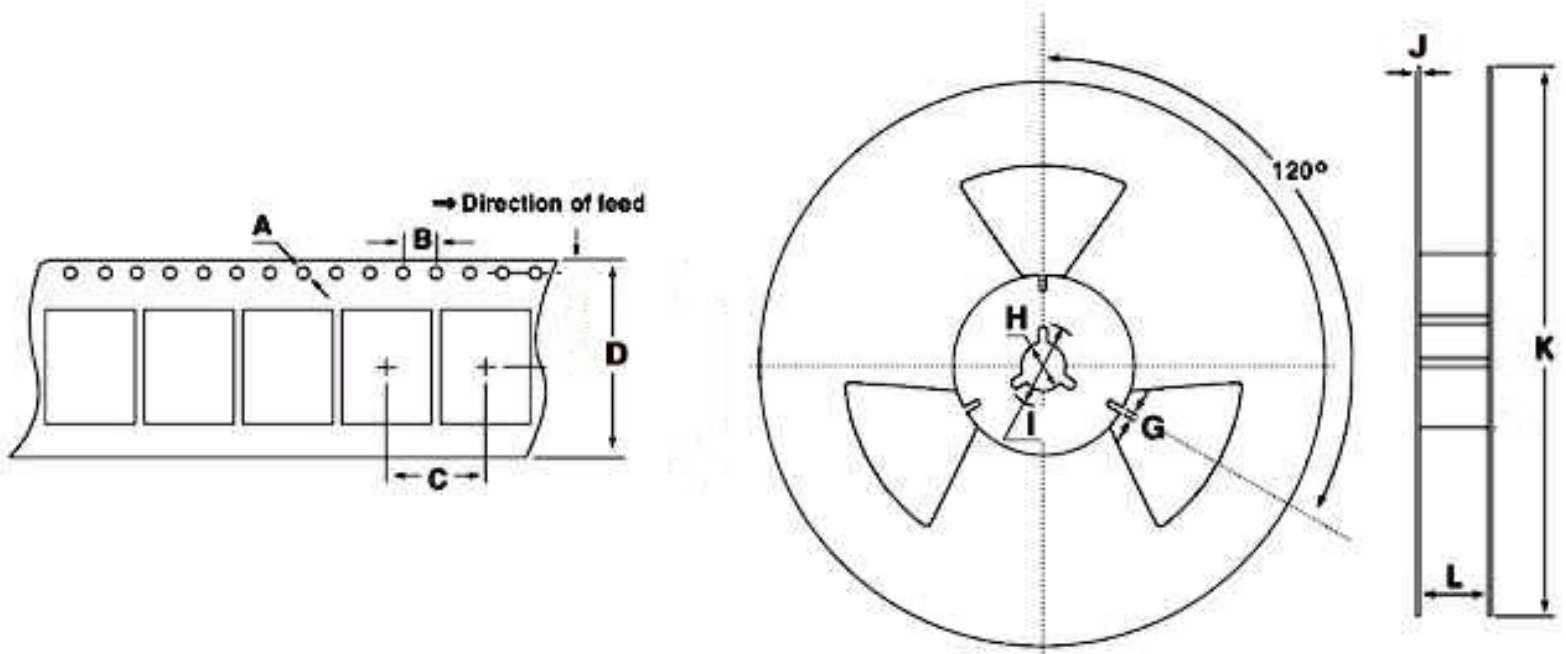


CONNECTION
 #1 X-TAL
 #2 GND
 #3 X-TAL
 #4 GND

LAND PATTERN



TAPE AND REEL SPECIFICATIONS:



TAPE SPECIFICATIONS:(millimeters)

MODEL	A	B	C	D
US5032	1.5	4.0	8.0	16.0
US6035	1.5	4.0	8.0	16.0
US7050	1.5	4.0	8.0	16.0

REEL SPECIFICATIONS:(millimeters)

MODEL	G	H	I	J	K	L
US5032	2.0	13.0	23.0	2.0	330 or 178	17.5
US6035	2.0	13.0	23.0	2.0	330 or 178	17.5
US7050	2.0	13.0	23.0	2.0	330 or 178	17.5