

XV sub miniature smd crystal
(8 ~ 80)MHz fundamental
(80.1 ~ 400)MHz inverted mesa fundamental

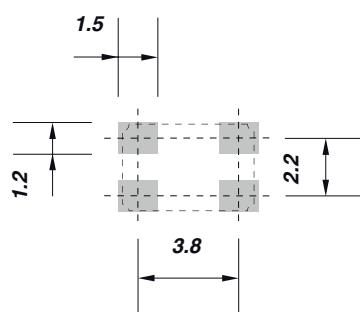
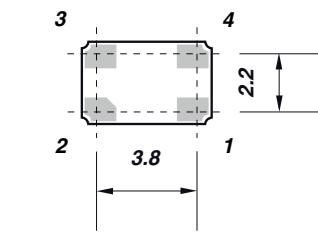
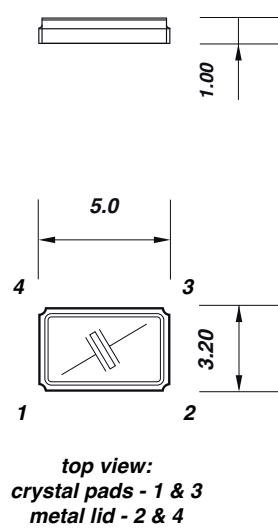
- **(5.0 x 3.2)mm, height 0.9mm, ceramic metal package**
- **tight tolerance**
- **12mm tape and reel**
- **1000/ 2000/ 3000/ 5000 pieces per reel**
- **RoHS compliant**

Electrical specification

case style	XV: (5 x 3.2)mm, height 0.9mm
frequency range	(8 ~ 400)MHz
standard frequencies	12.00MHz, 16.00MHz, 20.00MHz, 25.00MHz, 27.00MHz, 28.00MHz, 40.00MHz, 122.326MHz, 122.324MHz, 122.408MHz, 122.430MHz, 156.125MHz
adjustment tolerance	from ±10ppm at +25°C, frequency dependent
temperature tolerance	from ±10ppm, frequency and temperature range dependent
operating temperature	(-10 +60)°C ~ (-40 +85)°C
storage temperature	(-55 +125)°C
load	customer specified
shunt capacitance C_0	(8 ~ 80)MHz 5.0pF max., (80.1 ~ 400)MHz 3.0pF max.
drive level	10µW typical, 300µW max.
Q factor	>40K for f<70MHz
ageing	±3ppm first year max.
insulation resistance	500Meg. ohm min. at+100Vdc.

Ordering information

EXAMPLE	XV crystal, 16.00MHz, load 20pF, ±10ppm at +25°C, ±10ppm(-10 +60)°C
TFC PART NUMBER	XV 16.00M H B B I
XV	crystal series: XV
16.00M	frequency: 16.00M = 16.00MHz, frequency range from (8 ~ 400)MHz
H	load capacitance: H = 20pF
B	adjustment tolerance at +25°C: C = ±10ppm
B	temperature tolerance: B = ±10ppm
I	temperature range: I = (-10 +60)°C
OPTIONS	Not all combinations of options are available
load capacitance	A: 8pF, B: 9pF, C: 10pF, D: 12pF, E: 15pF, F: 16pF, G: 18pF, H: 20pF, J: 32pF, S: series
adjustment tolerance	A: ±5ppm, B: ±10ppm, P: ±15ppm, C: ±20ppm, E: ±30ppm, G: ±50ppm
temperature tolerance	A: ±5ppm, B: ±10ppm, P: ±15ppm, C: ±20ppm, E: ±30ppm, G: ±50ppm, H: ±100ppm, I: ±150ppm
temperature range	B: (0 +55)°C, I: (-10 +60)°C, C: (-20 +70)°C, D: (-25 +85)°C, L: (-40 +85)°C

XV sub miniature smd crystal**XV dimensions(mm)**

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)
8 ~ 11	AT1	<100
11 ~ 12	AT1	<65
12 ~ 13	AT1	<60
13 ~ 16	AT1	<55
16 ~ 24	AT1	<50
24 ~ 48	AT1	<40
48 ~ 53.125	AT1	<45
80	AT1	<60
80.1 ~ 400	AT1	<60