



## SMD CRYSTAL UNITS

### ◆ HC-47SMD Crystal



This part is a miniature AT cut strip crystal units with a low profile package. It is with resistance weld.

#### FEATURES

- Low Cost
- Industry Standard
- Wide Frequency Range
- Excellent Aging

#### ◆ 标准规格Electrical Specific:

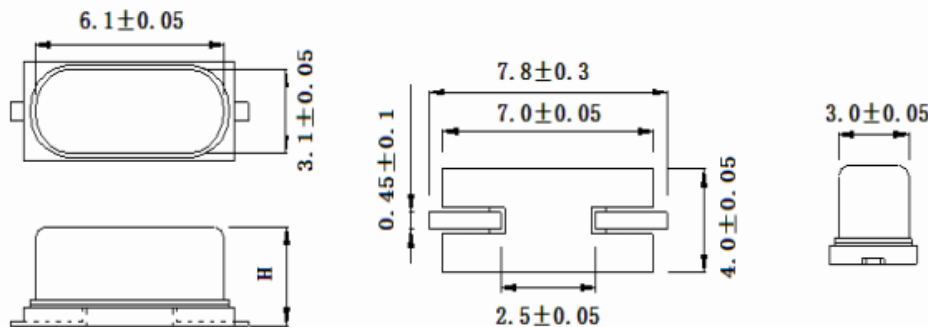
Item	Type	HC-47SMD
标准频率Frequency Range	F0	6.7458MHz~66.000MHz
负载电容Load Capacitance	CL	10pF to Series
调整频差Frequency Tolerance	$\Delta F/F0$	$\pm 10\text{ppm}, \pm 20\text{ppm} \pm 30\text{ppm} \pm 50\text{ppm} (\text{At } 25^\circ\text{C})$
等效电阻Equivalent Series Resistance ESR		See Table 1
温度频差Temperature Stability	TC	$\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm} (\text{Refer to } 25^\circ\text{C})$
工作温度Operating Temperature Range		$-20 \sim +70^\circ\text{C}, -40 \sim +85^\circ\text{C Option}$
贮存温度Storage Temperature Range		$-55 \sim +125^\circ\text{C}$
静态电容Shunt Capacitance	$C_0$	7pF max.
绝缘电阻Insulator Resistance	IR	500M $\Omega$ min.(At 100VDC)
激励功率Drive level	DL	100 $\mu\text{W}$ (500 $\mu\text{W max}$ )
老化率Aging	Fa	$\pm 5\text{ppm max. (At } 25^\circ\text{C, First year)}$
最小包装Packing Unit		3000pcs/reel

#### ◆ 等效电阻Table 1:Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)

Frequency Range(MHz)	Max ESR( $\Omega$ )	Mode	Frequency Range(MHz)	Max ESR( $\Omega$ )	Mode
6.7458 to 7.999	120	Fundamental/AT	13.000 to 15.999	50	Fundamental/AT
8.000 to 9.999	100	Fundamental/AT	16.000 to 19.999	40	Fundamental/AT
10.000 to 11.999	80	Fundamental/AT	20.000 to 29.999	35	Fundamental/AT
12.000 to 12.999	60	Fundamental/AT	30.000 to 48.000	30	Fundamental/AT

\*\*Please contact us for inquiries regarding other Specifications

#### ◆ 外型尺寸Mechanical Dimensions(mm)

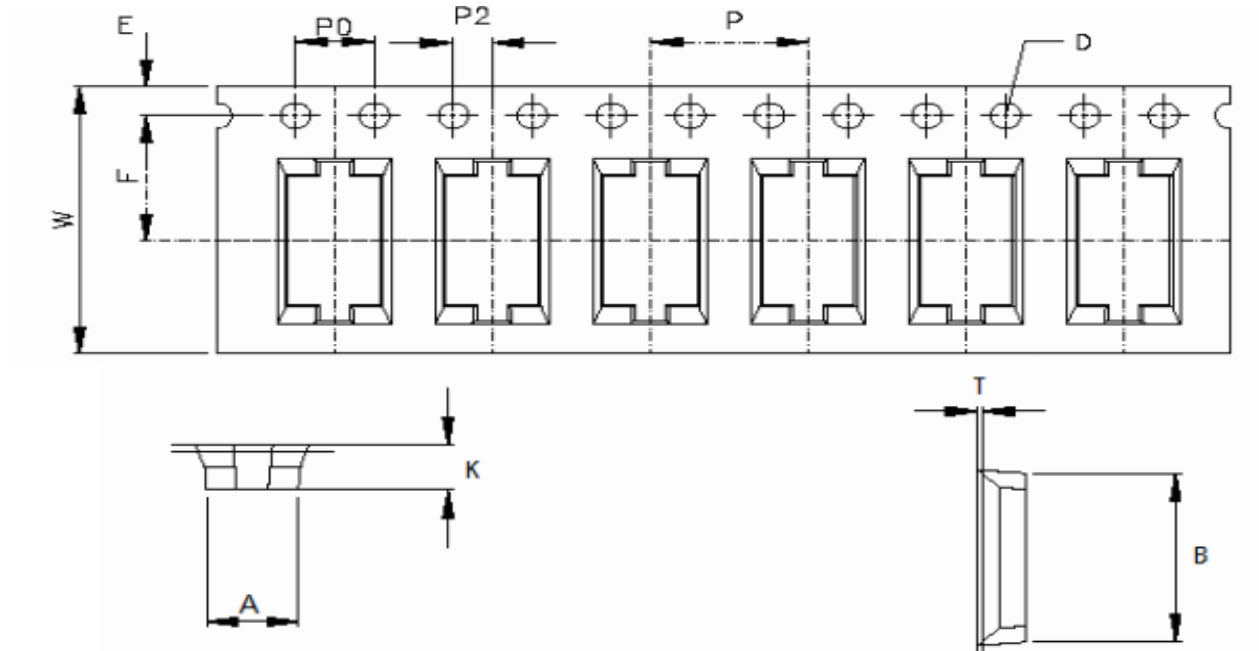


NO.	规格	H
1.	F < 16Mhz (含)	2.3Max
2	F > 16Mhz	2.1Max



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## 包装 Packing



单位 units : mm :

Model	A	B	D	E	F	P	P0	T	W
49MSMD	4.7±0.1	9.5±0.1	Φ1.5	1.75±0.1	7.5±0.1	8.0±0.1	4.0±0.1	0.3±0.05	16±0.3

SPEC 1	12	16	24	32	44	56	72	88
C1±1	330	330	330	330	330	330	330	330
A±0.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
B±0.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
H+2.0	12.5	16.5	24.5	32.5	44.5	56.5	72.5	88.5
T±0.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
D±0.5	ø100	ø100	ø100	ø100	ø100	ø100	ø100	ø100

