

# HC-49U, UM

MONOLITHIC CRYSTAL FILTER

SMD



## TYPICAL APPLICATIONS

Pager, Cordless Telephone, Portable Telephone, VHF Radio, SSB.....

## TYPICAL SPECIFICATIONS

### For Normal 10.7MHz Series

Type	Nominal Frequency (MHz)	Pole	Pass Band		Stop Band		Ripple (dB)	Loss (dB)	Guaranteed Attenuation		Terminating impedance (Ohm / pF)	Operating Temp. Range (°C)	Case
			dB	KHz	dB	KHz			dB	fo±KHz			
10L071A	10.695	2	3	±3.75	20	±18.0	0.5	1.5	35	±300 ~ ±1000	1.8K/5.0	-20 ~ +70	HC-49/U.35*1
10L072A		4	3	±3.75	40	±14.0	1.0	2.5	65	±300 ~ ±1000	1.8/4.5	-20 ~ +70	HC-49/U.35*2
10L121A		2	3	±6.0	20	±25.0	0.5	1.5	35	±300 ~ ±1000	2.5K/2.5	-20 ~ +70	HC-49/U.35*1
10L122A		4	3	±6.0	40	±20.0	1.0	2.5	65	±300 ~ ±1000	2.5K/1.5	-20 ~ +70	HC-49/U.35*2
10L151A	10.700	2	3	±7.5	18	±25.0	0.5	1.5	35	±300 ~ ±1000	3.0K/2.0	-20 ~ +70	HC-49/U.35*1
10L152A		4	3	±7.5	40	±25.0	1.0	2.5	65	±300 ~ ±1000	3.0K/1.5	-20 ~ +70	HC-49/U.35*2
10L301A		2	3	±15.0	15	±50.0	0.5	1.5	30	±300 ~ ±1000	5.0K/0	-20 ~ +70	HC-49/U.35*1
10L302A		4	3	±15.0	30	±40.0	1.0	2.5	65	±300 ~ ±1000	5.5K/-1.0	-20 ~ +70	HC-49/U.35*2

### For Normal 21.4MHz Series

21M081A	21.400	2	3	±3.75	20	±18.0	0.5	1.5	35	±300 ~ ±1000	850/6.0	-20 ~ +70	UM-1.35*1
21M082A		4	3	±3.75	40	±14.0	1.0	2.5	65	±300 ~ ±1000	850/5.0	-20 ~ +70	UM-1.35*2
21M121A		2	3	±6.0	20	±25.0	0.5	1.5	35	±300 ~ ±1000	1.2K/3.0	-20 ~ +70	UM-1.35*1
21M122A		4	3	±6.0	40	±20.0	1.0	2.5	65	±300 ~ ±1000	1.2K/2.5	-20 ~ +70	UM-1.35*2
21M151A	21.800	2	3	±7.5	18	±25.0	0.5	1.5	35	±300 ~ ±1000	1.5K/2.5	-20 ~ +70	UM-1.35*1
21M152A		4	3	±7.5	40	±25.0	1.0	2.5	65	±300 ~ ±1000	1.5K/2.0	-20 ~ +70	UM-1.35*2
21M301A		2	3	±15.0	15	±45.0	0.5	1.5	35	±300 ~ ±1000	1.5K/1.0	-20 ~ +70	UM-1.35*1
21M302A		4	3	±15.0	40	±50.0	1.0	2.5	65	±300 ~ ±1000	2.2K/0.5	-20 ~ +70	UM-1.35*2

### For Pager

21M151A	21.400	2	3	±7.5	18	±25.0	1.0	1.5	35	±300 ~ ±1000	1.5K/2.5	-20 ~ +70	UM-1.35*1
21T151A		2	3	±7.5	18	±25.0	1.0	1.5	35	±300 ~ ±1000	1.5K/2.5	-20 ~ +70	UM-5.35*1
21T201A	21.800	2	3	±10.0	15	±30.0	1.0	1.5	35	300 ~ ±1000	1.5K/2.5	-20 ~ +70	UM-5.35*1

### For Cordless Telephone

10L151A	10.700	2	3	±7.5	18	±25.0	0.5	2.0	35	±300 ~ ±1000	3.0K/2.0	-20 ~ +70	HC-49/U.35*1
21M071A	21.400	2	3	±3.75	18	±12.5	1.0	2.0	60	±(910±10)	1.5K/6.0	-20 ~ +70	UM-1.35*2
21M122A		4	3	±6.0	40	±20.0	1.5	3.0	80	±(910±10)	1.2K/2.5	-20 ~ +70	UM-1.35*2
21M152A	21.800		3	±7.5	40	±25.0	1.5	3.0	80	±(910±10)	1.5K/2.0	-20 ~ +70	UM-1.35*2
58M072AT	58.075	4	3	±3.75	35	±14.0	2.0	4.0	80	±(910±10)	3.0K/-0.4	-20 ~ +70	UM-1.35*2
58M122AT	58.1125	4	3	±6.0	35	±20.0	2.0	3.0	80	±(910±10)	3.0K/-0.4	-20 ~ +70	UM-1.35*2
58M152AT	58.1625	4	3	±7.5	28	±25.0	2.0	3.0	80	±(910±10)	3.0K/-1.0	-20 ~ +70	UM-1.35*2
83M302AT	83.160		3	±15.0	20	±60.0	1.5	6.0	65	±(910±10)	2.5K/-1.0	-20 ~ +70	UM-1.35*2

### For Portable Telephone

45M301AF	45.000	2	3	±15.0	15	±50.0	1.0	2.0	50	-(910±10)	600/1.5	-20 ~ +70	UM-1.35*1
45T301AF		2	3	±15.0	15	±50.0	1.0	2.0	50	-(910±10)	600/1.5	-20 ~ +70	UM-5.35*1
45N401AF		2	2	±20.0	15	±60.0	1.0	2.0	50	-(910±10)	860/-1.7	-20 ~ +70	UM-4.35*1
45T151AF	45.050	2	3	±7.5	15	±22.0	1.0	2.0	66	-(910±10)	470/6.0	-20 ~ +70	UM-5.35*1
45M152AF	45.100	4	3	±7.5	40	±30.0	1.0	3.0	80	±300 ~ ±1000	560/3.0	-20 ~ +70	UM-1.35*2
45T152AF		4	3	±7.5	40	±30.0	1.0	3.0	80	±300 ~ ±1000	560/3.0	-20 ~ +70	UM-5.35*2
45T302AF		4	3	±15.0	30	±60.0	1.0	3.0	80	±910	1.6K/0	-20 ~ +70	UM-5.35*2
70T202AT	70.000	4	3	±10.0	35	±40.0	2.0	6.0	70	±300 ~ ±1000	2.5K/-1.0	-20 ~ +70	UM-5.35*2
90T092AT	90.000	4	3	±4.5	13	±12.5	2.0	6.0	70	±(910±10)	2.5K/-1.0	-20 ~ +70	UM-5.35*2

### For VHF Radio

45L152AT	45.000	4	3	±7.5	40	±30.0	2.0	3.0	70	±300 ~ ±1000	3.0K/-1.0	-20 ~ +70	HC-49/U.35*2
45MA52AT		4	3	±7.5	40	±30.0	2.0	3.0	70	±300 ~ ±1000	3.0K/-1.0	-20 ~ +70	UM-1.35*2
55L171AT	55.845	2	3	±8.5	18	±34.0	2.0	3.0	35	±300 ~ ±1000	3.0K/-1.0	-20 ~ +70	HC-49/U.35*1
55M171AT		2	3	±8.5	18	±34.0	2.0	3.0	35	±300 ~ ±1000	3.0K/-1.0	-20 ~ +70	UM-1.35*1
55M172AT	55.025	4	3	±8.5	25	±25.0	2.0	3.0	70	±300 ~ ±1000	3.0K/-1.0	-20 ~ +70	UM-1.35*2
58M172AT	58.1125	4	3	±8.5	25	±25.0	2.0	4.0	70	±300 ~ ±1000	3.0K/-1.0	-20 ~ +70	UM-1.35*2
70M152AT	70.000	4	3	±7.5	40	±30.0	2.0	6.0	70	±300 ~ ±1000	2.5K/-1.0	-20 ~ +70	UM-1.35*2
90M202AT	90.000	4	3	±10.0	35	±40.0	2.0	6.0	70	±300 ~ ±1000	2.5K/-1.0	-20 ~ +70	UM-1.35*2

# HC-49U, UM

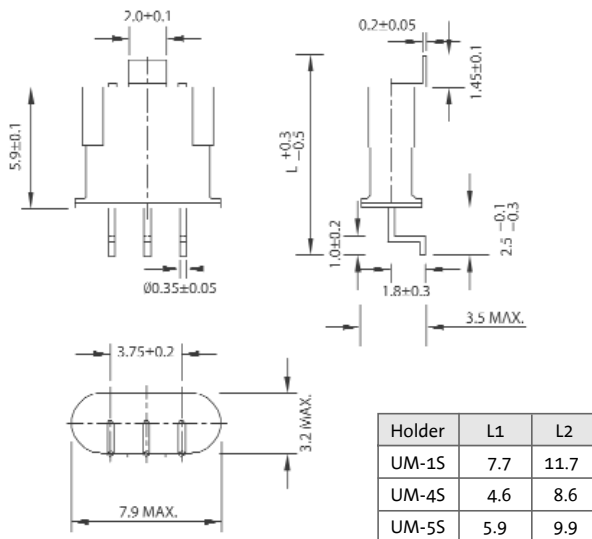
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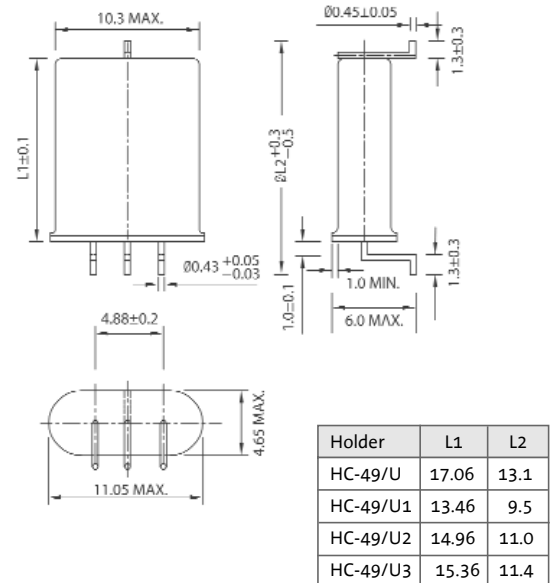


## ■ Dimention & Land Pattern (unit: mm):

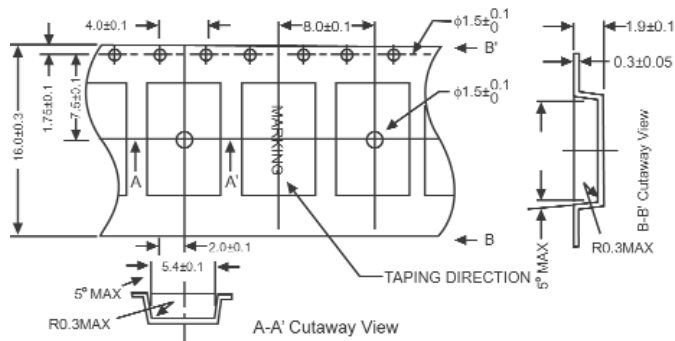
### UM Series



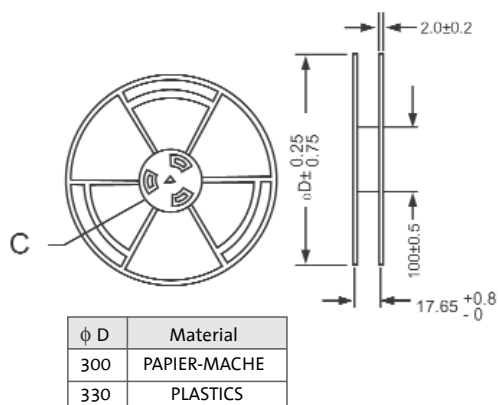
### 49/ U Series



## ■ Tape Specification



## ■ Reel Specification



### C Enlarge:

