

P/N:WTL9M10267

Resistance Welded HC-49/S Surface Mount Package

FEATURE

- Height 4.0mm, compact unit for surface mount
- Able to by means of a metal case and completely sealed high solution characteristics
- Copes with high density mounting and is the optimum for mass production



ELECTRICAL SPECIFICATIONS

| | |
|------------------------------|---------------------------|
| Nominal frequency | 7.3728MHz |
| Oscillation mode | See below table |
| Operating temperature range | -20°C--+70°C |
| Storage temperature range | -40°C--+85°C |
| Frequency tolerance | ±30ppm |
| Freq. Temp characteristics | ±30ppm |
| Load capacitance | 16pF |
| Equivalent series resistance | See below table |
| Parallel capacitance(Co) | 7PF Max |
| Drive level | 100 μW Typical |
| Insulation resistance | More than 500MΩ AT DC100V |

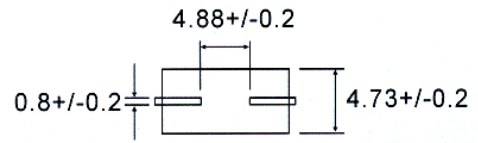
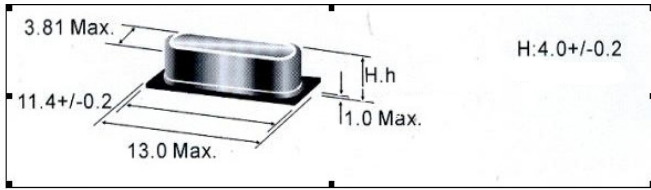
EQUIVALENT SERIES RESISTANCE(ESR) AND OSCILLATION MODE

| Frequency Range | E.S.R (Ω) | Mode | Frequency Range | E.S.R (Ω) | Mode |
|---------------------|-----------|----------------|----------------------|-----------|-----------------------|
| 3.000MHz~5.999MHz | 150Max | Fundamental/AT | 24.000MHz~40.320MHz | 30Max | Fundamental/ BT |
| 6.000MHz~7.999MHz | 60Max | Fundamental/AT | 24.000MHz~29.999MHz | 100Max | Third Overtone /AT |
| 8.000MHz~15.999MHz | 50Max | Fundamental/AT | 30.000MHz~49.999MHz | 80Max | Third Overtone /AT |
| 16.000MHz~30.000MHz | 30Max | Fundamental/AT | 50.000MHz~100.000MHz | 60Max | Third Overtone /AT |

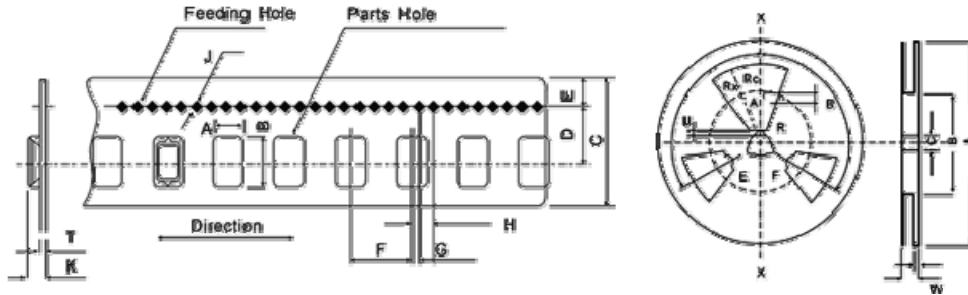
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Dimension



Tape & Reel



| Description | | Code | Dimensions | |
|-------------|---------------------|----------|-------------------------|---------------------------|
| Flanges | Diameter | A | $\phi 330 \pm 2.0$ | |
| | Thickness | t | 2.4 ± 0.2 | |
| | WidthbetweenFlanges | W | $+2.0$ $24.4-0$ | |
| Flanges | OutlineDiameter | B | $\phi 100 \pm 2.0$ | |
| | CenterCoreslit | Width | F | 2.3 ± 1.0 |
| | | Depth | V | 6.0 ± 1.0 |
| | | Position | Q | $120^\circ \pm 3.0^\circ$ |
| | SpindleDiameter | C | $\phi 13.0 \pm 0.5$ | |
| | KeySeats | Width | E | 2.5 |
| | | Depth | U | 5.0 ± 0.5 |
| Position | | Q | $120^\circ \pm 3^\circ$ | |
| Fenestrate | OutlineRadius | Ro | $R90 \pm 1.0$ | |
| | InlineRadius | Ri | $R40 \pm 1.0$ | |
| | RoundedComers | Rc | $+2.0$ $R5-0$ | |
| | OpenAngle | R | $40^\circ \pm 2^\circ$ | |

| Code | Dimension | Code | Dimension | Code | Dimension |
|------|-----------------|------|------------------------------|------|-----------------------|
| A | 5.0 ± 0.1 | E | 1.75 ± 0.1 | J | $\phi 1.5 (+0.1, -0)$ |
| B | 15.0 ± 0.2 | F | $8.0 \pm 0.1 / 12.0 \pm 0.1$ | K | 5.0 ± 0.1 |
| C | 24.0 ± 0.3 | G | 2.0 ± 0.1 | T | 5.0 ± 0.1 |
| D | 11.05 ± 0.1 | H | 4.0 ± 0.1 | | |