



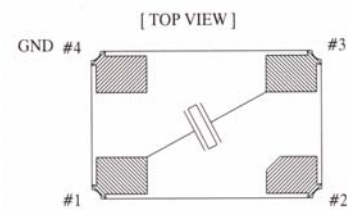
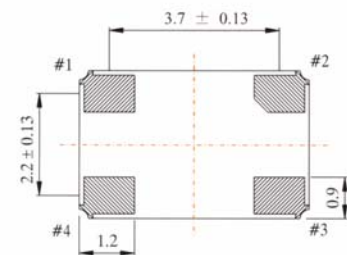
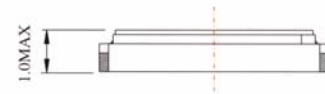
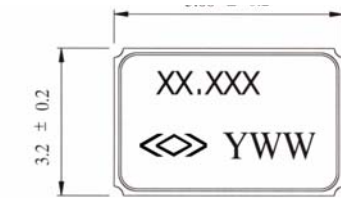
## Surface Mount Crystals

--- Type: RA-5032



### SPECIFICATIONS:

|                                |                                 |
|--------------------------------|---------------------------------|
| Frequency Range                | 12~48MHz                        |
| Operating Temp. Range          | -10°C~+60°C (Standard)          |
| Storage Temperature            | -40°C~+85°C                     |
| Frequency Tolerance @ 25°C     | ±50ppm (Standard)               |
| Frequency Stability Over Temp. | ±50ppm (Standard)               |
| Shunt Capacitance              | 7pF                             |
| Load Capacitance               | 6~32pF, Series (30pF Standard)  |
| Drive Level                    | 10 μ W~500 μ W (0.1mW Standard) |
| Aging @ 25°C                   | ±1ppm/year                      |



Marking #4 and #2 are connected with metal cap of top

UNIT:mm

### ESR CHART:

| Frequency Range (MHz) | ESR (Ω) |
|-----------------------|---------|
| 12.000~13.000         | 65      |
| 13.000~16.000         | 60      |
| 16.000~24.000         | 55      |
| 24.000~48.000         | 50      |

### Temperature Range and Stability

|             | ±5ppm | ±10ppm | ±15 ppm | ±20 ppm | ±30 ppm | ±50 ppm |
|-------------|-------|--------|---------|---------|---------|---------|
| A0= 0~+50   | ○     | ○      | ○       | ○       | ○       | ○       |
| A1= -10~+60 | —     | ○      | ○       | ○       | ○       | ○       |
| A2=-20~+70  | —     | ○      | ○       | ○       | ○       | ○       |
| A3=-30~+75  | —     | —      | —       | ○       | ○       | ○       |
| A4=-40~+85  | —     | —      | —       | ○       | ○       | ○       |

### ORDER OPTIONS:

| Type    | Freq. (MHz)   | Load Cap. (pF)    | Freq. Tolerance (ppm) | Freq. Stability (ppm) | Operating Temp. (°C) | Package      |
|---------|---------------|-------------------|-----------------------|-----------------------|----------------------|--------------|
| RA-5032 | 12<br>~<br>48 | C6~32<br>S=Series | ±5                    | ±5                    | A0 = 0~+50           | T= tape&reel |
|         |               |                   | ±10                   | ±10                   | A1 = -10~+60         |              |
|         |               |                   | ±15                   | ±15                   | A2 = -20~+70         |              |
|         |               |                   | ±20                   | ±20                   | A3 = -30~+75         |              |
|         |               |                   | ±30                   | ±30                   | A4 = -40~+85         |              |
|         |               |                   | ±50                   | ±50                   |                      |              |

i.e. : RA-5032-24.000C18-30/30-A1-F-T