

MAIN FEATURE

- Thru Hole type, 2 pins
- Height for different frequency range
- Low Cost and short lead time

APPLICATION

- Communication and more



L10.0*W5.0*H

H: Different Height for Freq. Range

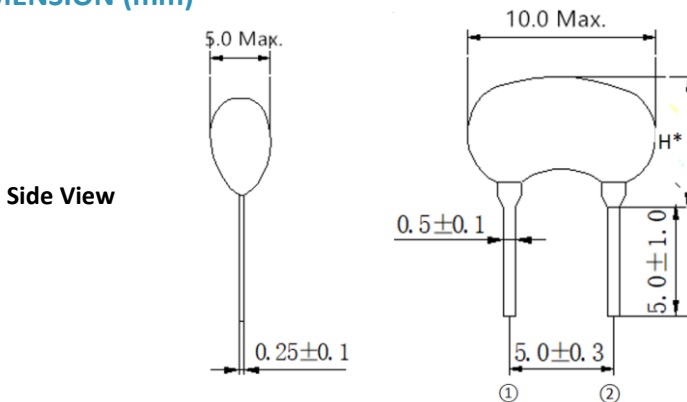
STANDARD SPECIFICATION

| Parameter | Value | | | Unit | Condition |
|-----------------------------|---------------------------------------|------|-------|------|---|
| | Min. | Type | Max. | | |
| Frequency Range | 1.79 | | 60.00 | MHz | see p/n guide or Specify |
| Frequency Accuracy | | ±0.5 | | % | @25 °C |
| Operating Temperature Range | -25 | - | +85 | °C | |
| Storage Temperature Range | -55 | - | +85 | °C | |
| Capacitance (C1/C2) | | 30 | - | pF | MG/MT/MX(12.00~23.99MHz) |
| | | 15 | - | | MX: 24.00~31.99MHz |
| | - | 5 | - | | MX: 32.00~60.00MHz |
| Temperature Coefficient | - | ±0.3 | - | % | Oscillation Freq. drift @-25 °C ~+85 °C |
| Resonant Impedance | 25 | 30 | 80 | ohm | |
| Aging per year* | - | - | ±0.3 | % | From initial value |
| Withstanding Voltage | | 50 | | V | DC, 5s Max. |
| Insulation Resistance Ri | 500 | | | MΩ | 10V, 1min |
| Rating Voltage UR | | 6 | | V | DC |
| | | 15 | | V | p-p AC |
| IC | MG/MT: 1/6TC4069UBP, MX: 1/6TC74HCU04 | | | | |

* Parts shall be left in a chamber of +85 °C ±2°C for 1000 hours, then measured after leaving in natural condition for 1 hours.

DIMENSION (mm)

Table 1



| H* (mm) | Design Mode | Frequency Range (MHz) |
|-----------|-------------|-----------------------|
| 7.5 Max. | MG | 1.7900~6.000 |
| 10.0 Max. | MT | 6.010~13.00 |
| 10.0 Max. | MX | 12.00~23.99 |
| 7.5 Max. | MX | 24.00~31.99 |
| 6.5 Max. | MX | 32.00~60.00 |

#1 In/Output
#2 Output/Input

PART NUMBER GUIDE

Example: TGS CRA 18.4MX BLF

Part Number and Part Code Structure

| TGS | CRA | 18.4 | MX | B | LF XX |
|-----|-----|------|----|---|-------|
| 1 | 2 | 3 | 4 | 5 | 6 7 |

- 1) TGS: Company Code
- 2) CRA: Ceramic Resonator, Without Built-in Capacitance, 2 Pins
- 4) 18.4: Frequency Range in MHz, 18.40MHz or specify
- 5) MX: Design Mode for different Frequency range, see table 1
- 6) B: Package in BULK, 500pcs/Plastic Bag
- 7) LF: RoHS Compliant
- 8) XX: Internal Control Code- 2 letter or digits; Blank: N/A

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