

Quartz Crystal Series

SMD7050B

Features

◆RoHS Compliant

◆Ceramic/metal package



Electrical Specifications

| Item | Specifications | Remarks |
|---------------------------|-------------------------------|-----------------------------|
| Nominal Frequency Range | 6.000MHz to 30.000MHz | Fund.; AT-Cut |
| | 30.000MHz to 80.000MHz | 3 rd O.T.;AT-Cut |
| Frequency Tolerance | ±30ppm(Standard) at 25°C±3°C | Others are offered |
| Load Capacitance | Fund.:10pF to ∞,O.T.:5pF to ∞ | Please specify |
| Series Resistance | As ESR table | |
| Shunt Capacitance | 7pF Max | |
| Drive Level | 10μW to 100μW | 1000μW Max |
| Operating Temperature | -20°C to +70°C (Standard) | Others are offered |
| Storage Temperature | -55°C to +125°C | |
| Stability vs. Temperature | ±30ppm(Standard) | Others are offered |
| Insulated Resistance | 500MΩ | Minimum |
| Aging | ±3ppm/year | Maximum |

ESR(Series Resistance)

| Frequency(MHz) | Mode | Ohm Max | Frequency(MHz) | Mode | Ohm Max |
|----------------|----------|---------|----------------|-------------------------|---------|
| 6~16 | Fund.;AT | 60 | 30~40 | 3 rd O.T.;AT | 80 |
| 16~30 | Fund.;AT | 40 | 40~80 | 3 rd O.T.;AT | 70 |

Stability vs. Temperature

| ◆ Standard | | 1 | 2 | 3 | 5 | 6 | 7 | Remarks |
|------------------|----------------|--------|--------|--------|--------|--------|--------|----------|
| ◇ Please specify | | ±10ppm | ±20ppm | ±30ppm | ±50ppm | ±15ppm | ±25ppm | |
| B | -10°C to +60°C | ◇ | | | | ◇ | | |
| C | -20°C to +70°C | ◇ | ◇ | ◆ | ◇ | ◇ | ◇ | Standard |
| D | -40°C to +85°C | | ◇ | ◇ | ◇ | ◇ | ◇ | |

Ordering Information

| Q | R | Type | Pin | XX.XXXX | M | Mode | CL pF | Freq.Tolerance at 25°C | Operating Temp. | Stability Vs.Temp. | Option |
|--|---|-----------|-----|------------------|-----|----------------------------|-------|------------------------|-----------------|--------------------|-------------|
| Q:Quartz | | 7050:SMD | | Center frequency | M: | F:Fund.;AT | See | ±10ppm to | See Table | See Table | F:Lead Free |
| R:Resonator | | 7.0*5.0mm | B:4 | 6.0 to 80.0MHz | MHz | O: 3 rd O.T.;AT | Table | ±50ppm | | | Blank:T&R |
| Example:QR6035B13.5600MFT1C1F (Crystal,SMD6.0*3.5mm,13.5600MHz,4pins,12pF,+/-10ppm,-20 to +70deg.T&R,Lead free) | | | | | | | | | | | |

Load Capacitance Codes

| | | | |
|---------|---------|---------|-----------|
| 7pF: E | 8pF: F | 9pF: B | 10pF: R |
| 12pF: T | 15pF: H | 16pF: I | 18pF: J |
| 20pF: K | 22pF: L | 25pF: G | 27pF: M |
| 30pF: N | 32pF: P | 33pF: W | Series: S |

