



Features

- Wide frequency range
- Low profile plastic moulded package

Standard Frequencies

| Frequencies in MHz |          |          |          |
|--------------------|----------|----------|----------|
| 3.579545           | 7.159090 | 10.75200 | 16.58880 |
| 3.686400           | 7.372800 | 11.00000 | 16.93440 |
| 3.840000           | 7.664320 | 11.05920 | 17.73447 |
| 4.000000           | 7.987200 | 11.28960 | 18.43200 |
| 4.032000           | 8.000000 | 12.00000 | 19.20000 |
| 4.096000           | 8.064000 | 12.28800 | 19.66080 |
| 4.194304           | 8.192000 | 12.50000 | 20.00000 |
| 4.433619           | 8.388608 | 12.80000 | 20.94500 |
| 4.608000           | 8.867237 | 14.31818 | 22.11840 |
| 4.915200           | 9.216000 | 14.40000 | 24.00000 |
| 5.000000           | 9.600000 | 14.74560 | 24.00014 |
| 6.000000           | 9.830400 | 15.00000 | 24.57600 |
| 6.144000           | 10.00000 | 15.36000 | 25.00000 |
| 6.176000           | 10.24000 | 16.00000 | 27.00000 |
| 6.553600           | 10.24500 | 16.25700 | 28.63636 |
| 6.666667           | 10.70000 | 16.38400 | 29.49120 |

Specifications

| Parameters                                    | Product | Option Codes |
|---|---------|--------------|
|   | GSX-309 |              |
| Frequency range: 3.50 ~ 32.0MHz               | ■       |              |
| Calibration tolerance: ±30ppm                 | □       | 3            |
| ±50ppm  | □       | 5            |
| Temperature stability: ±30ppm                 | □       | 3            |
| ±50ppm  | ■       | 5            |
| Operating temperature range:                  |         |              |
| -10 to +60°C                                  | ■       | 1            |
| -20 to +70°C                                  | □       | 2            |
| Other values                                  | □       | specify      |
| Operable temperature range:                   |         |              |
| -40 to +85°C                                  | ■       |              |
| Storage temperature range:                    |         |              |
| -55 to +125°C                                 | ■       |              |
| Circuit condition:                            |         |              |
| 16pF  | ■       | D            |
| 18pF  | □       | E            |
| 20pF  | □       | F            |
| 30pF  | □       | J            |
| Other values                                  | □       | specify      |
| Oscillation mode: Fundamental                 | ■       | F            |
| Static capacitance (C <sub>0</sub> ): 7pF max | ■       |              |
| Equivalent series resistance (max):           |         |              |
| 200Ω (3.5 ~ 3.9MHz)                           | ■       |              |
| 150Ω (4.0 ~ 5.9MHz)                           | ■       |              |
| 100Ω (6.0 ~ 9.9MHz)                           | ■       |              |
| 50Ω (10.0 ~ 32.0MHz)                          | ■       |              |
| Ageing: ±5ppm max first year                  | ■       |              |
| Drive level: 100μW typ                        | ■       |              |
| Shock resistance: ±5ppm                       | ■       |              |
| Soldering conditions:                         |         |              |
| 240°C, 10sec max                              | ■       |              |

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product name + option codes + frequency  
 eg: **GSX-309/551DF 16.0MHz** 50/50/10/16-F (standard)  
**GSX-309/352JF 24.0MHz** 30/50/20/30-F  
 Option code X (eg GSX-309/X) denotes a custom specification.  
 Available on T&R - 1k pcs per reel.