

**Features:**

- Hybrid Integrated Circuit
- Surface Mounted Device Type
- Shield Case : Nickel Silver
- 18PIN Type

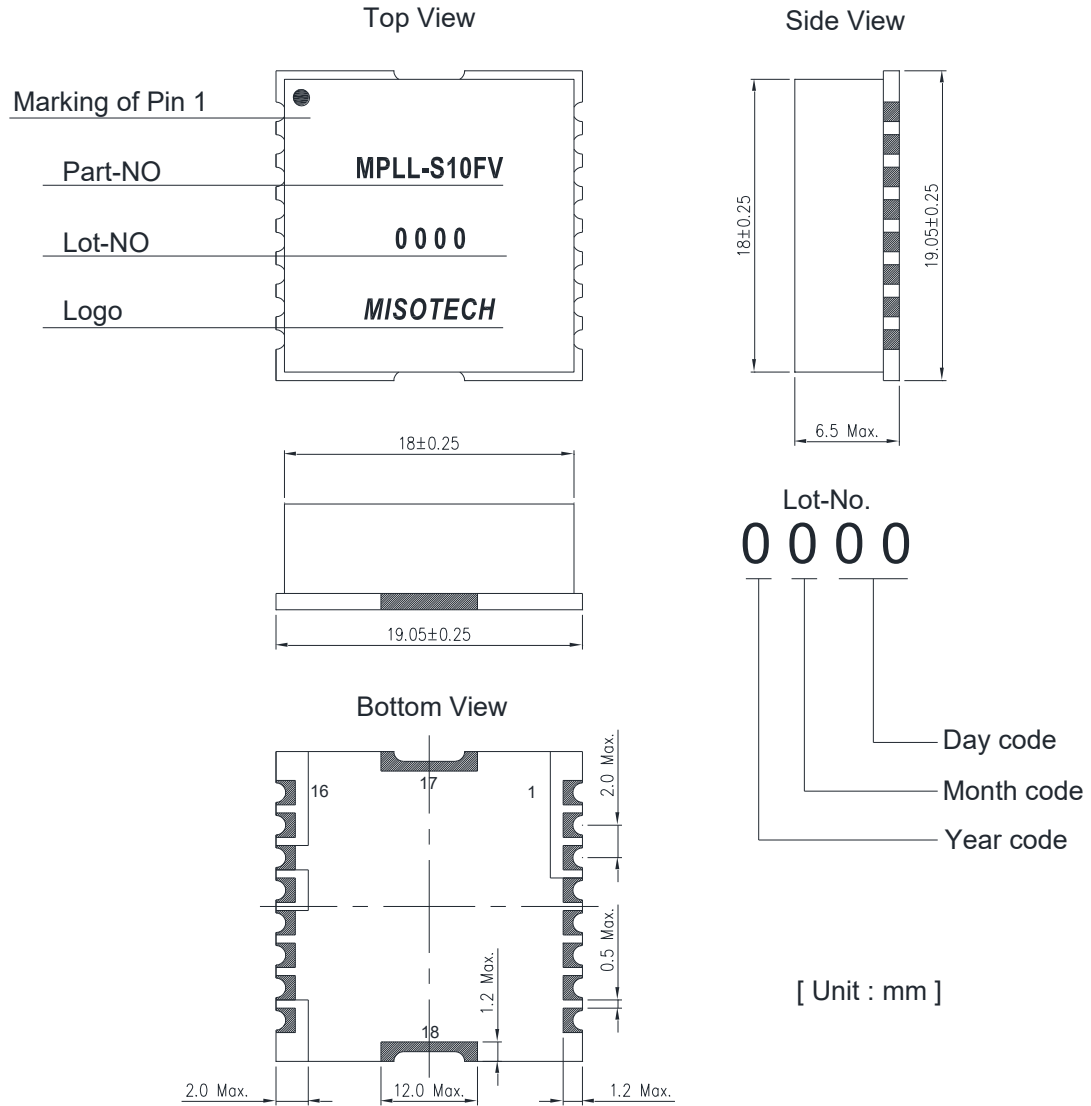


ELECTROSTATIC SENSITIVE DEVICE  
 OBSERVE HANDLING PRECAUTIONS

**Electrical Specifications (TA=+25Deg.C, 50Ω system)**

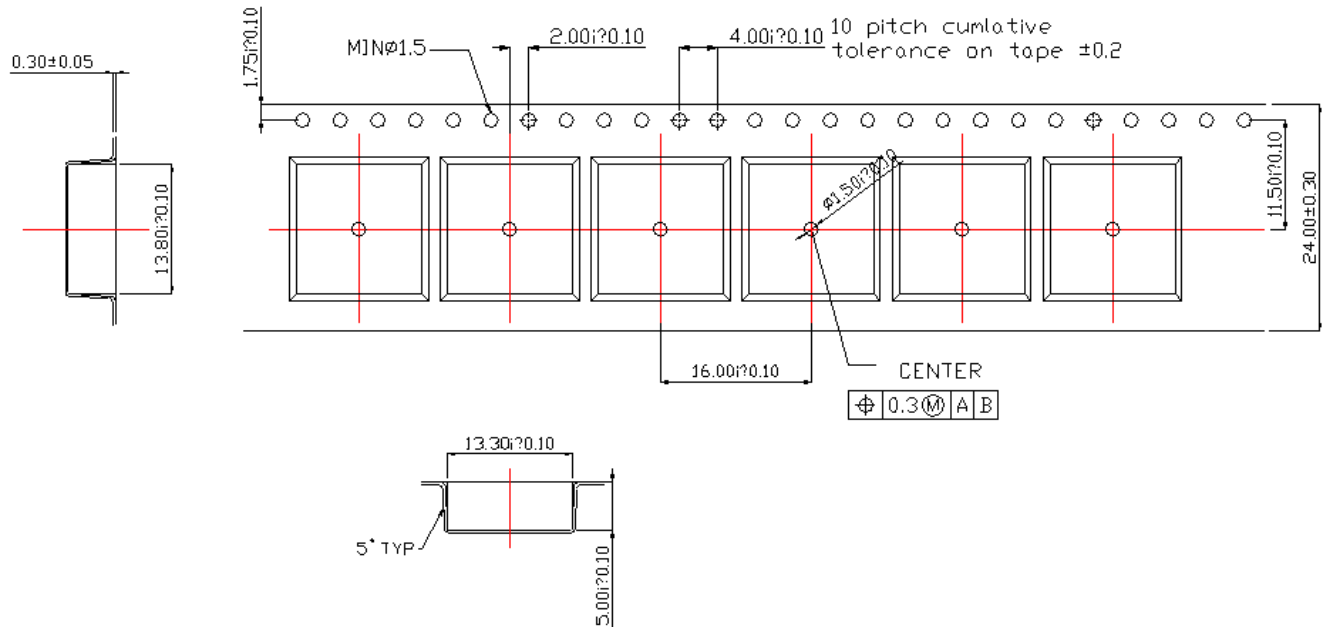
| NO | ITEM                                                                       |        | UNIT                       | MIN   | TYP                  | MAX   |
|----|----------------------------------------------------------------------------|--------|----------------------------|-------|----------------------|-------|
| 1  | Operating Frequency Range                                                  |        | MHz                        |       | 10.0                 |       |
| 2  | Output Power Level                                                         |        | dBm                        | +5.0  | +7.0                 | +9.0  |
| 3  | Harmonics Level (2 <sup>nd</sup> )                                         |        | dBc                        |       |                      | -10   |
| 4  | Spurious Level                                                             |        | dBc                        |       |                      | -70   |
| 5  | Phase Noise<br>at offset @ 1kHz<br>at offset @ 10kHz<br>at offset @ 100kHz |        | dBc/Hz<br>dBc/Hz<br>dBc/Hz |       | -125<br>-145<br>-150 |       |
| 6  | Lock Time                                                                  |        | msec                       |       |                      | 30    |
| 7  | Output Impedance                                                           |        | Ω                          |       | 50                   |       |
| 8  | VCO Supply Voltage                                                         |        | V                          | +3.15 | +3.30                | +3.45 |
| 9  | PLL Supply Voltage                                                         |        | V                          | +3.15 | +3.30                | +3.45 |
| 10 | Reference Freq.                                                            |        | MHz                        |       | 10.0                 |       |
| 11 | Reference Freq. Level                                                      |        | dBm                        | +0.0  |                      |       |
| 12 | Current Consumption                                                        |        | mA                         |       |                      | 40    |
| 13 | Lock Detector Voltage                                                      | V Low  | V                          |       |                      | +0.5  |
|    |                                                                            | V High | V                          | +3.0  |                      |       |
| 14 | Operating Temp. Range                                                      |        | °C                         | -30   |                      | +75   |

**Dimensions**

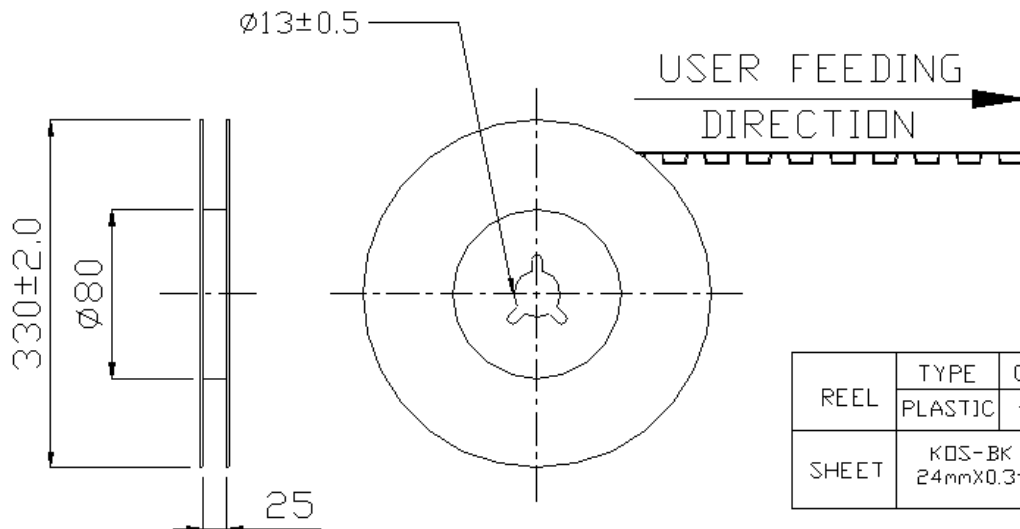


| Terminal Connection       |               |        |                  |
|---------------------------|---------------|--------|------------------|
| Pin NO                    | Terminal NAME | Pin NO | Terminal NAME    |
| 4                         | Ref. IN       | 15     | PLL Vcc          |
| 9                         | VCO Vcc       | 16     | Lock Detect (LD) |
| 13                        | RF Out        |        |                  |
| All Other Pins are Ground |               |        |                  |

**Packing**



**Taping**



| REEL  | TYPE                | COLOR             | HUB           | SIZE |
|-------|---------------------|-------------------|---------------|------|
|       | PLASTIC             | 흑,백색              | 80            | 330  |
| SHEET | KDS-BK<br>24mmX0.3t | POCKET<br>COUNTER | 750<br>POCKET |      |

REEL DIMENSION

**Reel**