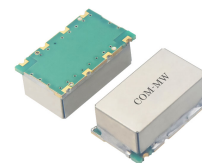


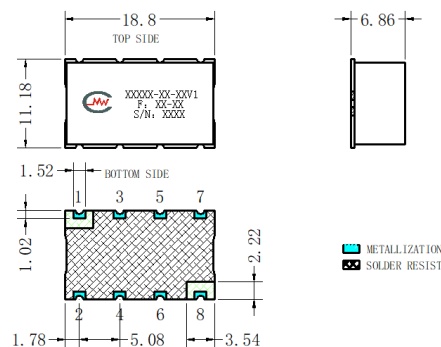
## Main specifications

| Parameters    | Frequency | /          | Min | Typical | Max | Units |
|---------------|-----------|------------|-----|---------|-----|-------|
| Passband      | /         | /          | 460 | ~       | 560 | MHz   |
| Passband IL   | /         | /          |     | 3       |     | dB    |
| Ripple        | /         | /          |     | 1.5     |     | dB    |
| Rejection     | 300       | MHz $\geq$ | 20  |         |     | dB    |
| Rejection     | 615       | MHz $\geq$ | 20  |         |     | dB    |
| Rejection     | DC-200    | MHz $\geq$ |     | 35      |     | dB    |
| Rejection     | 650-3000  | MHz $\geq$ |     | 35      |     | dB    |
| Passband VSWR | /         | /          |     | 1.3     | 1.5 |       |

## Reference picture



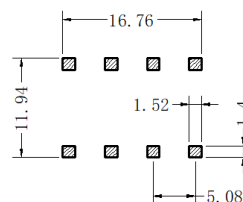
## Configuration(mm)



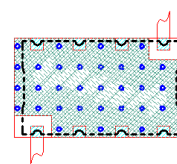
## Other parameters

|               |                            |
|---------------|----------------------------|
| Connector     | SMD                        |
| Impedance     | 50 $\Omega$                |
| Power         | 2W                         |
| Work Temp.    | -40~+85°C Design assurance |
| Storage Temp. | -55~+85°C Design assurance |
| Quality Grade | Industrial grade           |
| Other         | Replace SXBP-507+          |

PCB Land Pattern



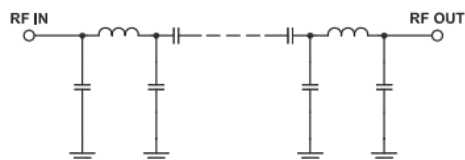
Suggested PCB Layout



## Port Definition

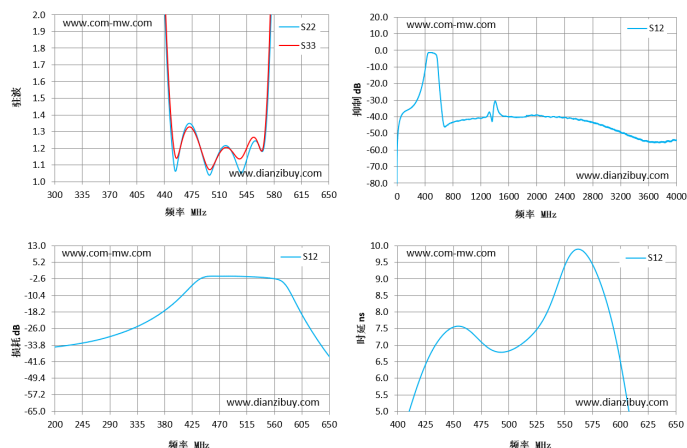
|          |           |
|----------|-----------|
| I/O Port | 1,8       |
| GND      | 2,3,4,5,6 |

## Functional diagram



Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.

## Typical test curve



## Typical test data

| Frequency(MHz) | S22 VSWR | S33 VSWR | S12 IL dB | S12 Delay nS |
|----------------|----------|----------|-----------|--------------|
| 300            | 85.13    | 62.85    | -29       | 1.24         |
| 325            | 63.9     | 56.81    | -26.37    | 1.39         |
| 350            | 52.74    | 49.31    | -22.99    | 1.61         |
| 375            | 42.97    | 39.82    | -18.59    | 2.22         |
| 400            | 24.22    | 22.2     | -12.83    | 3.9          |
| 425            | 6.09     | 6.34     | -5.61     | 6.42         |
| 450            | 1.26     | 1.35     | -1.44     | 7.53         |
| 475            | 1.35     | 1.32     | -1.29     | 7.12         |
| 500            | 1.05     | 1.07     | -1.32     | 6.82         |
| 525            | 1.19     | 1.19     | -1.59     | 7.46         |
| 550            | 1.2      | 1.25     | -2.09     | 9.37         |
| 575            | 1.81     | 1.96     | -4.32     | 9.44         |
| 600            | 9.2      | 10.88    | -16.08    | 6.7          |
| 625            | 16.35    | 20.14    | -28.47    | 1.95         |
| 650            | 21.5     | 25.38    | -38.9     | -1.3         |

## Note

- Please do not wash the product in the cleaning solution.,Please do not wash the product in the cleaning solution.
- The product supports 190 °C reflow soldering