



# ANATECH ELECTRONICS, INC.

Manufacturer of RF & Microwave Products



## 417-427 MHz CDMA450 E-Band Saw Duplexer

P/N: AM417-427SD353

| Tx → Ant                    |                 | Specifications                            |                           |         |
|-----------------------------|-----------------|---|---------------------------|---------|
| Parameters Description      | Condition [MHz] | Minimum                                   | Typical                   | Maximum |
| Insertion Loss              | 415.5 ~ 420.0   | -   | 2.4 dB                    | 2.8 dB  |
| VSWR                        | 415.5 ~ 420.0   | -   | 1.4 dB                    | 2.1 dB  |
| Absolute Attenuation        | 0.3 ~ 400.0     | 23 dB                                     | 26 dB                     | -       |
|                             | 425.5 ~ 430.0   | 30 dB                                     | 50 dB                     | -       |
|                             | 430.0 ~ 1700.0  | 18 dB                                     | 23 dB                     | -       |
|                             | 1700.0 ~ 2000.0 | 10  | 17                        | -       |
| Ant → Rx                    |                 | Specifications                            |                           |         |
| Parameters Description      | Condition [MHz] | Minimum                                   | Typical                   | Maximum |
| Insertion Loss              | 425.5 ~ 430.0   | -   | 3.2 dB                    | 4.8 dB  |
| VSWR                        | 425.5 ~ 430.0   | -   | 1.5 dB                    | 2.2 dB  |
| Absolute Attenuation        | 0.3 ~ 415.5     | 20 dB                                     | 24 dB                     | -       |
|                             | 415.5 ~ 420.0   | 33 dB                                     | 51 dB                     | -       |
|                             | 460.0 ~ 600.0   | 20 dB                                     | 27 dB                     | -       |
|                             | 600.0 ~ 1200.0  | 20 dB                                     | 28 dB                     | -       |
|                             | 1200.0 ~ 2000.0 | 25 dB                                     | 38 dB                     | -       |
| Tx → Rx                     |                 | Specifications                            |                           |         |
| Parameters Description      | Condition [MHz] | Minimum                                   | Typical                   | Maximum |
| Isolation                   | 415.5 ~ 420.0   | 32 dB                                     | 49 dB                     | -       |
|                             | 425.5 ~ 430.0   | 35 dB                                     | 52 dB                     | -       |
| Parameters Description      |                 | Minimum                                   | Typical                   | Maximum |
| Operation Temperature Range |                 | -30 °C                                    | -                         | +80 °C  |
| Storage Temperature Range   |                 | -40 °C                                    | -                         | +85 °C  |
| Maximum DC Voltage          |                 | 0 V                                       |                           |         |
| Maximum Input Power         |                 | 1.0 W > 50000 Hours, CW tone(Ta= +50°C) W |                           |         |
| Input Impedance             |                 | 50 Ω                                      |                           |         |
| Output Impedance            |                 | 50 Ω                                      |                           |         |
| Package type & size         |                 |   |                           |         |
| Length x Width              |                 | -   | 5.0 x 5.0 mm <sup>2</sup> | -       |
| Height                      |                 | -   | -                         | 1.8 mm  |

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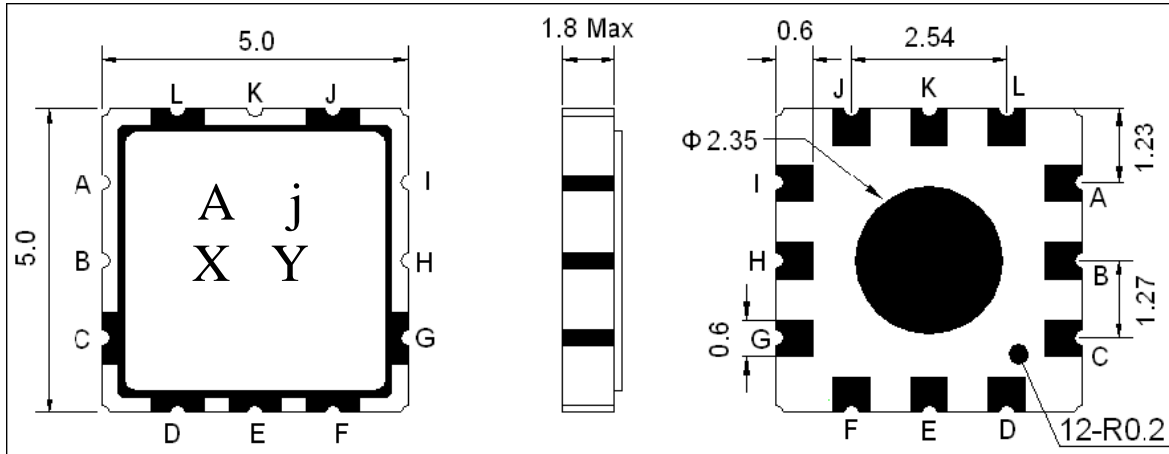


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**417-427 MHz Saw Duplexer**

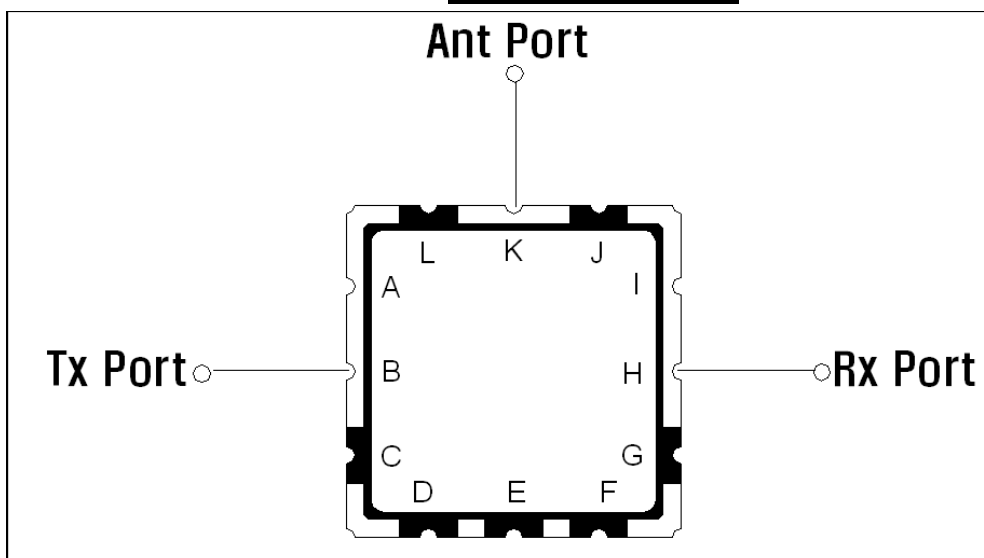
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| Marking Descriptions |                   |
|----------------------|-------------------|
| A                    | Application       |
| j                    | Series number     |
| x                    | Date Code (Year)  |
| y                    | Date Code (Month) |

| Pin Description           |             |
|---------------------------|-------------|
| A, C, D, E, F, G, I, J, L | Ground      |
| H                         | Receiver    |
| K                         | Antenna     |
| B                         | Transmitter |

**Testing Environment**



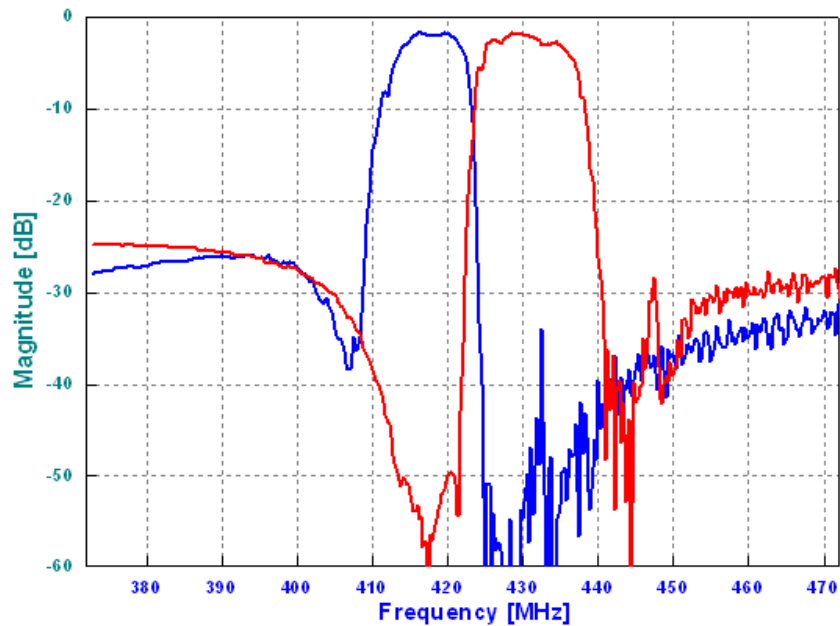


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**Frequency Characteristics**

**Tx to Ant, Ant to Rx**



**Tx to Rx Isolation**

