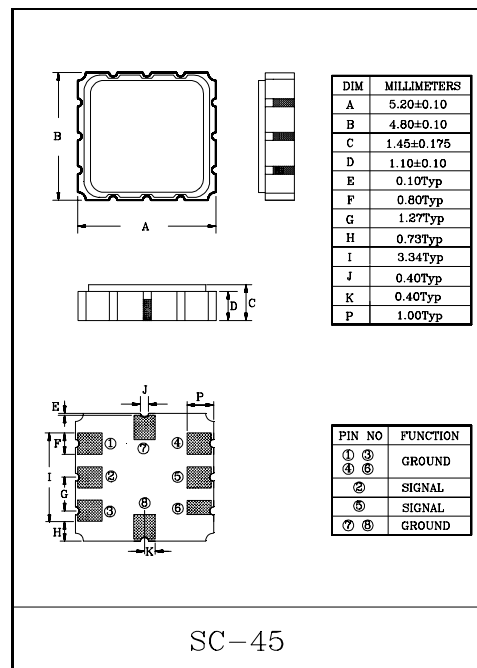


Band pass filters for the receiving RF circuits of transceiver

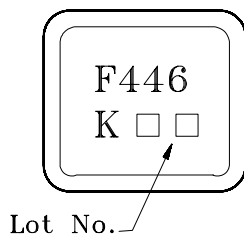
- High stability and reliability with good performance and no adjustment.
- Wide and sharp pass band characteristics.
- Low insertion loss and deep stop band attenuation for interference.

### MAXIMUM RATINGS (Ta=25°C)

| ITEM                        | SYMBOL            | RATING  | UNIT |
|-----------------------------|-------------------|---------|------|
| Input Signal Level          | IS <sub>max</sub> | 0       | dBm  |
| DC Permissive Voltage       | V <sub>DC</sub>   | +10     | V    |
| Operating Temperature Range | T <sub>opr</sub>  | -20~+60 | °C   |
| Storage Temperature Range   | T <sub>stg</sub>  | -30~+85 | °C   |



### MARKING



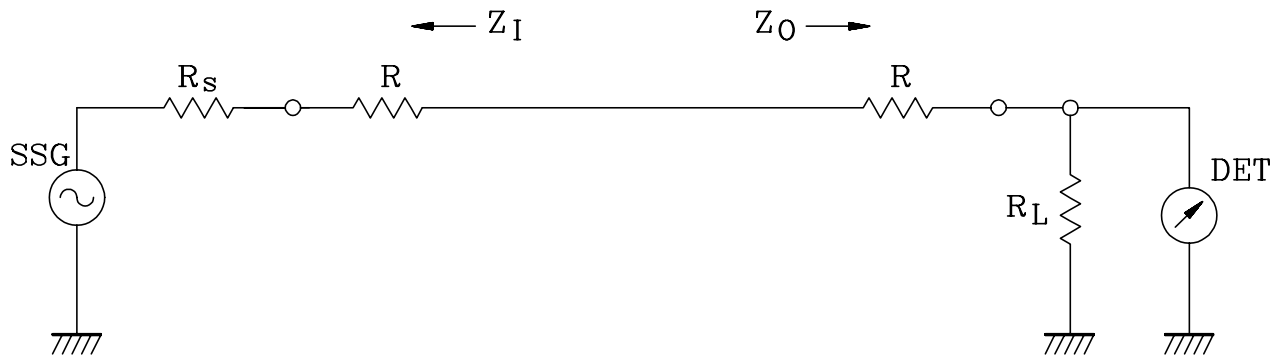
### ELECTRICAL CHARACTERISTICS (Temperature 20±2°C, Humidity 65±5%)

| ITEMS                    | SYMBOL                           | TEST CONDITION                            | MIN.              | TYP.     | MAX. | UNIT |
|--------------------------|----------------------------------|---|-------------------|----------|------|------|
| Nominal Center Frequency | f <sub>0</sub>                   | -   | -                 | 446      | -    | MHz  |
| Bandwidth                | BW <sub>3dB</sub>                | -   | f <sub>0</sub> ±5 | -        | -    | MHz  |
| Insertion Loss           | IL <sub>PASS</sub>               | f <sub>0</sub> ±5MHz                      | -                 | -        | 4.0  | dB   |
| Ripple Level             | A <sub>RIP</sub>                 | f <sub>0</sub> ±5MHz                      | -                 | -        | 2.0  | dB   |
| Rejection Level          | IL <sub>STOP</sub>               | f <sub>0</sub> -100~f <sub>0</sub> -80MHz | 55                | -        | -    | dB   |
|                          |                                  | f <sub>0</sub> +80~f <sub>0</sub> +100MHz | 45                | -        | -    | dB   |
| Input/Output Impedance   | Z <sub>I</sub> (Z <sub>O</sub> ) | -   | -                 | 50Ω//0pF | -    | -    |

# KF446S

## TEST CIRCUIT

### REFERENCE LEVEL TEST CIRCUIT

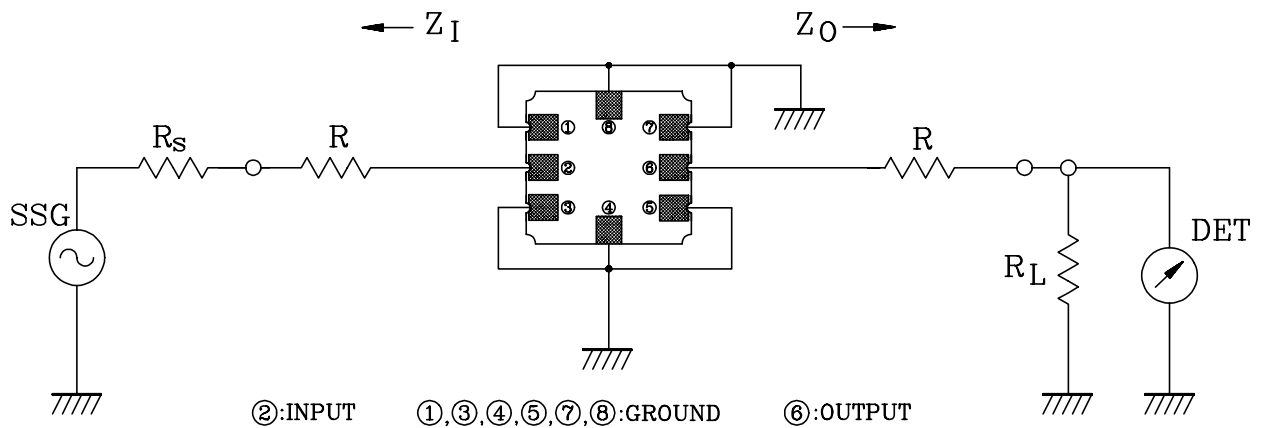


$R_s, R_L : 50\Omega$  (Internal Impedance of Source and Load)

$R : 0\Omega$

$$Z_I(Z_O) = R_s(R_L) + R$$

### MEASUREMENT CIRCUIT



$R_s, R_L : 50\Omega$  (Internal Impedance of Source and Load)

$R : 0\Omega$

$$Z_I(Z_O) = R_s(R_L) + R$$