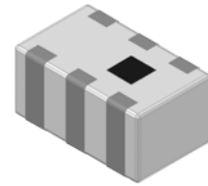


# Multilayer Chip LC Diplexer – SLFD Series

Operating Temp. : -40°C~+85°C



## FEATURES

- Small and low profile enables high density mounting
- Low insertion loss & high attenuation
- Excellent solderability

## APPLICATIONS

- Mobile communication system, such as GSM, DCS, PCS, etc.
- Bluetooth, WIFI, WLAN, LNB, etc.

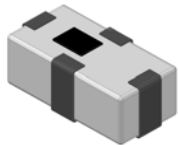
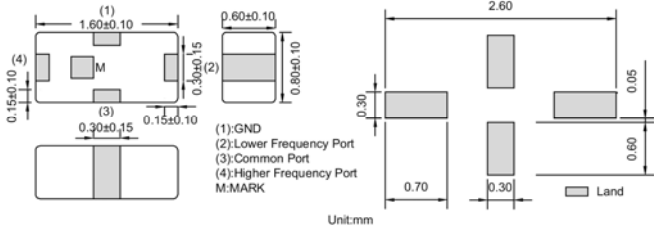
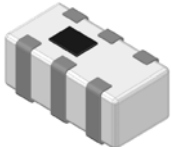
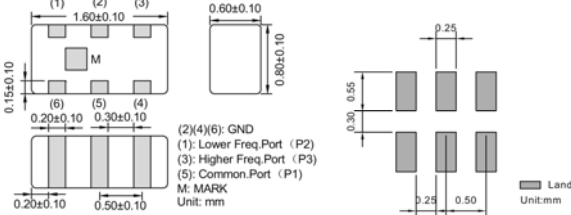
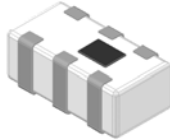
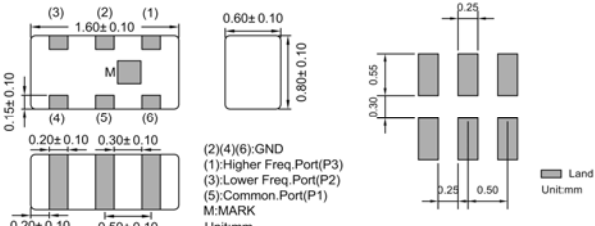
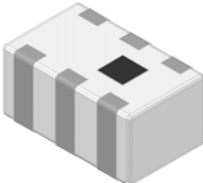
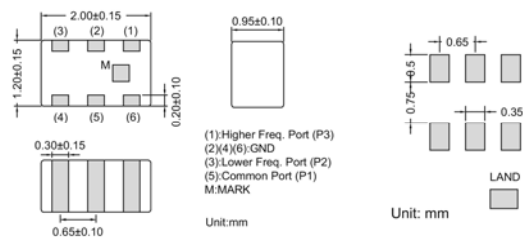
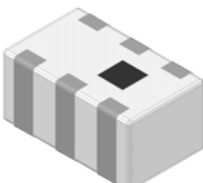
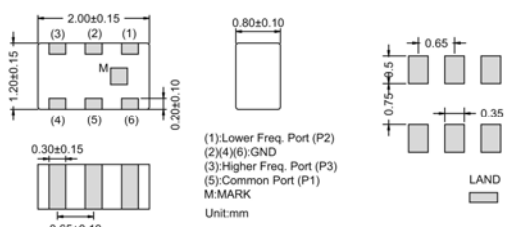
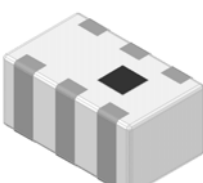
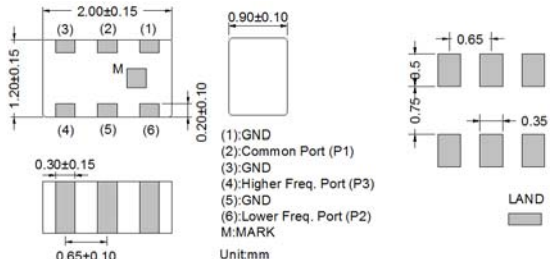
## PRODUCT IDENTIFICATION

| ①<br><b>SLFD</b>  | ②<br><b>21</b>       | ③<br><b>-2R450G</b> | ④<br><b>-02</b> | ⑤<br><b>T</b> |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
|---|----------------------|---------------------|-----------------|---------------|-------------|---|--|------------|---------|--------------------------------|---|----------------------|---------|-----------|---------|---|--|------------------|--|---------|---------------|--------|-----------|
| ①   | ②                    | ③                   | ④               | ⑤             |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| <table border="1"> <tr><th colspan="2">Type</th></tr> <tr><td>SLFD</td><td>LC Diplexer</td></tr> </table>       |                      | Type                |                 | SLFD          | LC Diplexer | <table border="1"> <tr><th colspan="2">(L×W) (mm)</th></tr> <tr><th colspan="2">External Dimensions (L×W) (mm)</th></tr> <tr><td>18 [0603]</td><td>1.6×0.8</td></tr> <tr><td>21 [0805]</td><td>2.0×1.2</td></tr> </table> |  | (L×W) (mm) |         | External Dimensions (L×W) (mm) |   | 18 [0603]            | 1.6×0.8 | 21 [0805] | 2.0×1.2 | <table border="1"> <tr><th colspan="2">Center Frequency</th></tr> <tr><th>Example</th><th>Nominal Value</th></tr> <tr><td>2R450G</td><td>2450.0MHz</td></tr> </table> |  | Center Frequency |  | Example | Nominal Value | 2R450G | 2450.0MHz |
| Type  |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| SLFD  | LC Diplexer          |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| (L×W) (mm)  |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| External Dimensions (L×W) (mm)  |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| 18 [0603]   | 1.6×0.8              |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| 21 [0805]   | 2.0×1.2              |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| Center Frequency  |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| Example   | Nominal Value        |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| 2R450G  | 2450.0MHz            |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| <table border="1"> <tr><th colspan="2">Series Code</th></tr> <tr><td colspan="2">01, 02, etc</td></tr> </table> |                      | Series Code         |                 | 01, 02, etc   |             | <table border="1"> <tr><th colspan="2">Packing</th></tr> <tr><td>T</td><td>Tape Carrier Package</td></tr> </table>  |  |            | Packing |                                | T | Tape Carrier Package |         |           |         |   |  |                  |  |         |               |        |           |
| Series Code   |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| 01, 02, etc   |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| Packing   |                      |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |
| T   | Tape Carrier Package |                     |                 |               |             |   |  |            |         |                                |   |                      |         |           |         |   |  |                  |  |         |               |        |           |

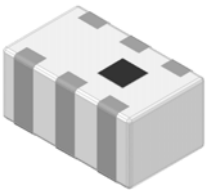
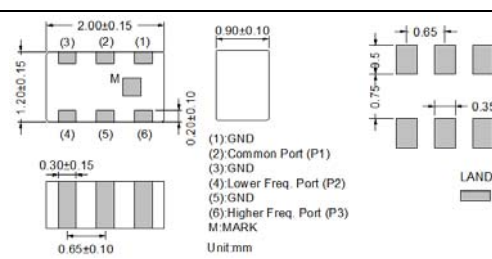
## SHAPE AND DIMENSIONS

|                             |                              |
|-----------------------------|------------------------------|
| Type: SLFD18-2R450G-01T/02T | Dimensions and Land Patterns |
|                             |                              |
| Type: SLFD18-2R450G-03T     | Dimensions and Land Patterns |
|                             |                              |

# SHAPE AND DIMENSIONS

|   |   |
|---|---|
| <p>Type: SLFD18-2R450G-03T</p>           | <p>Dimensions and Land Patterns</p>  <p>(1):GND<br/>(2):Lower Frequency Port<br/>(3):Common Port<br/>(4):Higher Frequency Port<br/>M:MARK</p> <p>Unit:mm</p>  |
| <p>Type: SLFD18-2R450G-04/05/07/09T</p>  | <p>Dimensions and Land Patterns</p>  <p>(2)(4)(6): GND<br/>(1): Lower Freq.Port (P2)<br/>(3): Higher Freq.Port (P3)<br/>(5): Common.Port (P1)<br/>M: MARK<br/>Unit: mm</p> <p>Unit:mm</p>                 |
| <p>Type: SLFD18-2R450G-06/08T</p>        | <p>Dimensions and Land Patterns</p>  <p>(2)(4)(6):GND<br/>(1):Higher Freq.Port(P3)<br/>(3):Lower Freq.Port(P2)<br/>(5):Common.Port(P1)<br/>M:MARK<br/>Unit:mm</p> <p>Unit:mm</p>                          |
| <p>Type: SLFD21-2R450G-02/04T</p>      | <p>Dimensions and Land Patterns</p>  <p>(1):Higher Freq. Port (P3)<br/>(2)(4)(6):GND<br/>(3):Lower Freq. Port (P2)<br/>(5):Common Port (P1)<br/>M:MARK<br/>Unit:mm</p> <p>Unit: mm</p>                  |
| <p>Type: SLFD21-2R450G-03/05T</p>      | <p>Dimensions and Land Patterns</p>  <p>(1):Lower Freq. Port (P2)<br/>(2)(4)(6):GND<br/>(3):Higher Freq. Port (P3)<br/>(5):Common Port (P1)<br/>M:MARK<br/>Unit:mm</p> <p>Unit:mm</p>                   |
| <p>Type: SLFD21-2R450G-06T</p>         | <p>Dimensions and Land Patterns</p>  <p>(1):GND<br/>(2):Common Port (P1)<br/>(3):GND<br/>(4):Higher Freq. Port (P3)<br/>(5):GND<br/>(6):Lower Freq. Port (P2)<br/>M:MARK<br/>Unit:mm</p> <p>Unit:mm</p> |

## SHAPE AND DIMENSIONS

| Type: SLFD21-2R450G-07T   | Dimensions and Land Patterns  |
|---|---|
|  |  <p>(1): GND<br/> (2): Common Port (P1)<br/> (3): GND<br/> (4): Lower Freq. Port (P2)<br/> (5): GND<br/> (6): Higher Freq. Port (P3)<br/> M: MARK<br/> Unit: mm</p> |

## SPECIFICATIONS

### SLFD18 TYPE

| Part Number       | Characteristic Impedance | Frequency Range | Frequency  | Max. IL in BW (@ 25°C) | Ripple in BW (@ 25°C) | Max. VSWR in BW (@25°C) | Min. Attenuation (@25°C) |
|-------------------|--------------------------|-----------------|------------|------------------------|-----------------------|-------------------------|--------------------------|
| Units             | Ω                        | -               | MHz        | dB                     | dB                    | -                       | dB                       |
| SLFD18-2R450G-01T | 50                       | Low Frequency   | 2400~2500  | 1.0                    | 0.5                   | 2.0                     | -                        |
|                   |                          |                 | 4800~6000  | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 7200~7500  | -                      | -                     | -                       | 18                       |
|                   |                          | High Frequency  | 2400~2500  | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 4900~5900  | 1.6                    | 1.0                   | 2.0                     | -                        |
|                   |                          |                 | 9800~11800 | -                      | -                     | -                       | 15                       |
| SLFD18-2R450G-02T | 50                       | Low Frequency   | 2400~2500  | 1.0                    | 0.5                   | 2.0                     | -                        |
|                   |                          |                 | 4800~6000  | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 7200~7500  | -                      | -                     | -                       | 18                       |
|                   |                          | High Frequency  | 2400~2500  | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 4900~5900  | 1.6                    | 1.0                   | 2.0                     | -                        |
|                   |                          |                 | 9800~11800 | -                      | -                     | -                       | 15                       |
| SLFD18-2R450G-03T | 50                       | Low Frequency   | 2400~2500  | 0.7                    | -                     | 1.9                     | -                        |
|                   |                          |                 | 4900~5900  | -                      | -                     | -                       | 10                       |
|                   |                          | High Frequency  | 2400~2500  | -                      | -                     | -                       | 15                       |
|                   |                          |                 | 4900~5900  | 0.8                    | -                     | 1.9                     | -                        |
| SLFD18-2R450G-04T | 50                       | Low Frequency   | 1570~1610  | 0.75                   | -                     | 2.0                     | -                        |
|                   |                          |                 | 2400~2500  | -                      | -                     | -                       | 12                       |
|                   |                          |                 | 4900~6000  | -                      | -                     | -                       | 12                       |
|                   |                          | High Frequency  | 1570~1610  | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 2400~2500  | 0.8                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 4900~6000  | 0.5                    | -                     | 2.0                     | -                        |
| SLFD18-2R450G-05T | 50                       | Low Frequency   | 1570~1610  | 0.75                   | -                     | 2.0                     | -                        |
|                   |                          |                 | 2400~2500  | -                      | -                     | -                       | 12                       |
|                   |                          |                 | 4900~6000  | -                      | -                     | -                       | 12                       |
|                   |                          | High Frequency  | 1570~1610  | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 2400~2500  | 0.8                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 4900~6000  | 0.5                    | -                     | 2.0                     | -                        |

# SPECIFICATIONS

## SLFD18 TYPE

| Part Number       | Characteristic Impedance | Frequency Range | Frequency  | Max. IL in BW (@ 25°C) | Ripple in BW (@ 25°C) | Max. VSWR in BW (@25°C) | Min. Attenuation (@25°C) |
|-------------------|--------------------------|-----------------|------------|------------------------|-----------------------|-------------------------|--------------------------|
| Units             | $\Omega$                 | -               | MHz        | dB                     | dB                    | -                       | dB                       |
| SLFD18-2R450G-06T | 50                       | Low Frequency   | 2400~2500  | 0.5                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 3600~3750  | -                      | -                     | -                       | 10                       |
|                   |                          |                 | 4800~5000  | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 7200~7500  | -                      | -                     | -                       | 10                       |
|                   |                          |                 | 9600~10000 | -                      | -                     | -                       | 10                       |
|                   | High Frequency           | 860~960         | -          | -                      | -                     | 30                      |                          |
|                   |                          | 1545~1605       | -          | -                      | -                     | 25                      |                          |
|                   |                          | 1710~1990       | -          | -                      | -                     | 25                      |                          |
|                   |                          | 2170            | -          | -                      | -                     | 30                      |                          |
|                   |                          | 4900~5950       | 0.6        | -                      | 2.1                   | -                       |                          |
|                   |                          | 8100~8800       | -          | -                      | -                     | 10                      |                          |
|                   |                          | 8820~9800       | -          | -                      | -                     | 15                      |                          |
|                   |                          | 9800~11800      | -          | -                      | -                     | 25                      |                          |
| SLFD18-2R450G-07T | 50                       | Low Frequency   | 2400~2500  | 2.6                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 824~915    | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 1545~1610  | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 1710~1910  | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 4800~5000  | -                      | -                     | -                       | 30                       |
|                   |                          | 7200~7500       | -          | -                      | -                     | 20                      |                          |
|                   | High Frequency           | 824~2500        | -          | -                      | -                     | 20                      |                          |
|                   |                          | 4900~5850       | 1.2        | -                      | 2.0                   | -                       |                          |
|                   |                          | 9800~11900      | -          | -                      | -                     | 15                      |                          |
| SLFD18-2R450G-08T | 50                       | Low Frequency   | 2400~2500  | 2.6                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 824~915    | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 1545~1610  | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 1710~1910  | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 4800~5000  | -                      | -                     | -                       | 30                       |
|                   |                          | 7200~7500       | -          | -                      | -                     | 20                      |                          |
|                   | High Frequency           | 824~2500        | -          | -                      | -                     | 20                      |                          |
|                   |                          | 4900~5850       | 1.2        | -                      | 2.0                   | -                       |                          |
|                   |                          | 9800~11900      | -          | -                      | -                     | 15                      |                          |
| SLFD18-2R450G-09T | 50                       | Low Frequency   | 2400~2500  | 0.5                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 3600~3750  | -                      | -                     | -                       | 10                       |
|                   |                          |                 | 4800~5000  | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 7200~7500  | -                      | -                     | -                       | 10                       |
|                   |                          |                 | 9600~10000 | -                      | -                     | -                       | 10                       |
|                   |                          | High Frequency  | 860~960    | -                      | -                     | -                       | 30                       |
|                   |                          |                 | 1545~1605  | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 1710~1990  | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 2170       | -                      | -                     | -                       | 30                       |
|                   |                          |                 | 4900~5950  | 0.6                    | -                     | 2.1                     | -                        |
|                   |                          |                 | 8100~8800  | -                      | -                     | -                       | 10                       |
|                   |                          |                 | 8820~9800  | -                      | -                     | -                       | 15                       |
|                   |                          |                 | 9800~11800 | -                      | -                     | -                       | 25                       |

# SPECIFICATIONS

## SLFD21 TYPE

| Part Number       | Characteristic Impedance | Frequency Range | Frequency   | Max. IL in BW (@ 25°C) | Ripple in BW (@ 25°C) | Max. VSWR in BW (@25°C) | Min. Attenuation (@25°C) |
|-------------------|--------------------------|-----------------|-------------|------------------------|-----------------------|-------------------------|--------------------------|
| Units             | $\Omega$                 | -               | MHz         | dB                     | dB                    | -                       | dB                       |
| SLFD21-2R450G-02T | 50                       | Low Frequency   | 2400~2500   | 0.5                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 3400~3800   | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 4800~5000   | -                      | -                     | -                       | 30                       |
|                   |                          |                 | 7200~7500   | -                      | -                     | -                       | 30                       |
|                   |                          | High Frequency  | 2400~2500   | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 3400~3800   | -                      | -                     | -                       | 17                       |
|                   |                          |                 | 5150~5850   | 0.7                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 10000~12000 | -                      | -                     | -                       | 20                       |
| SLFD21-2R450G-03T | 50                       | Low Frequency   | 824~915     | -                      | -                     | -                       | 28                       |
|                   |                          |                 | 1545~1610   | -                      | -                     | -                       | 28                       |
|                   |                          |                 | 1710~1990   | -                      | -                     | -                       | 24                       |
|                   |                          |                 | 2110~2170   | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 2400~2500   | 2.4                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 4800~5000   | -                      | -                     | -                       | 27                       |
|                   |                          | High Frequency  | 7200~7500   | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 1545~1610   | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 2400~2500   | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 5150~5850   | 1.2                    | -                     | 2.0                     | -                        |
| 10300~117000      | -                        | -               | -           | 20                     |                       |                         |                          |
| SLFD21-2R450G-04T | 50                       | Low Frequency   | 824~915     | -                      | -                     | -                       | 28                       |
|                   |                          |                 | 1545~1610   | -                      | -                     | -                       | 28                       |
|                   |                          |                 | 1710~1990   | -                      | -                     | -                       | 24                       |
|                   |                          |                 | 2110~2170   | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 2400~2500   | 2.4                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 4800~5000   | -                      | -                     | -                       | 27                       |
|                   |                          | High Frequency  | 7200~7500   | -                      | -                     | -                       | 20                       |
|                   |                          |                 | 1545~1610   | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 2400~2500   | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 5150~5850   | 1.2                    | -                     | 2.0                     | -                        |
| 10300~117000      | -                        | -               | -           | 20                     |                       |                         |                          |
| SLFD21-2R450G-05T | 50                       | Low Frequency   | 2400~2500   | 0.5                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 3400~3800   | -                      | -                     | -                       | 18                       |
|                   |                          |                 | 4800~5000   | -                      | -                     | -                       | 30                       |
|                   |                          |                 | 7200~7500   | -                      | -                     | -                       | 30                       |
|                   |                          | High Frequency  | 2400~2500   | -                      | -                     | -                       | 25                       |
|                   |                          |                 | 3400~3800   | -                      | -                     | -                       | 17                       |
|                   |                          |                 | 5150~5850   | 0.7                    | -                     | 2.0                     | -                        |
|                   |                          |                 | 10000~12000 | -                      | -                     | -                       | 20                       |

## SPECIFICATIONS

### SLFD21 TYPE

| Part Number       | Characteristic Impedance | Frequency Range | Frequency         | Max. IL in BW (@ 25°C) | Ripple in BW (@ 25°C) | Max. VSWR in BW (@25°C) | Min. Attenuation (@25°C) |    |   |    |
|-------------------|--------------------------|-----------------|-------------------|------------------------|-----------------------|-------------------------|--------------------------|----|---|----|
| Units             | $\Omega$                 | -               | MHz               | dB                     | dB                    | -                       | dB                       |    |   |    |
| SLFD21-2R450G-06T | 50                       | Low Frequency   | 824~915           | -                      | -                     | -                       | 30                       |    |   |    |
|                   |                          |                 | 1545~1610         | -                      | -                     | -                       | 28                       |    |   |    |
|                   |                          |                 | 1710~1990         | -                      | -                     | -                       | 24                       |    |   |    |
|                   |                          |                 | 2110~2170         | -                      | -                     | -                       | 20                       |    |   |    |
|                   |                          |                 | 2400~2500         | 2.4                    | -                     | 2.0                     | -                        |    |   |    |
|                   |                          |                 | 4800~5000         | -                      | -                     | -                       | 30                       |    |   |    |
|                   |                          |                 | 7200~7500         | -                      | -                     | -                       | 30                       |    |   |    |
|                   |                          | High Frequency  | 1545~1605         | -                      | -                     | -                       | -                        | 25 |   |    |
|                   |                          |                 | 2400~2500         | -                      | -                     | -                       | -                        | 25 |   |    |
|                   |                          |                 | 5150~5850         | 1.2                    | -                     | 2.0                     | -                        |    |   |    |
|                   |                          |                 | 10300~11700       | -                      | -                     | -                       | -                        | 20 |   |    |
|                   |                          |                 | SLFD21-2R450G-07T | 50                     | Low Frequency         | 824~915                 | -                        | -  | - | 30 |
|                   |                          |                 |                   |                        |                       | 1545~1610               | -                        | -  | - | 28 |
| 1710~1990         | -                        | -               |                   |                        |                       | -                       | 24                       |    |   |    |
| 2110~2170         | -                        | -               |                   |                        |                       | -                       | 20                       |    |   |    |
| 2400~2500         | 2.4                      | -               |                   |                        |                       | 2.0                     | -                        |    |   |    |
| 4800~5000         | -                        | -               |                   |                        |                       | -                       | 30                       |    |   |    |
| 7200~7500         | -                        | -               |                   |                        |                       | -                       | 30                       |    |   |    |
| High Frequency    | 1545~1605                | -               |                   |                        | -                     | -                       | -                        | 25 |   |    |
|                   | 2400~2500                | -               |                   |                        | -                     | -                       | -                        | 25 |   |    |
|                   | 5150~5850                | 1.2             |                   |                        | -                     | 2.0                     | -                        |    |   |    |
|                   | 10300~11700              | -               |                   |                        | -                     | -                       | -                        | 20 |   |    |

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