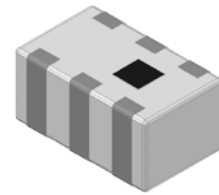


# Multilayer Chip LC Diplexer – SLFD Series

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 equipment for LTE, 5G systems etc.
- Bluetooth, Wi-Fi, WLAN etc.

## PRODUCT IDENTIFICATION

|                  |                |                     |                 |               |
|------------------|----------------|---------------------|-----------------|---------------|
| <b>SLFD</b><br>① | <b>18</b><br>② | <b>-2R450G</b><br>③ | <b>-23</b><br>④ | <b>T</b><br>⑤ |
| ①                | ②              |                     | ③               |               |
| ①                | ②              |                     | ③               |               |
| ④                | ⑤              |                     |                 |               |

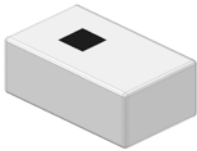
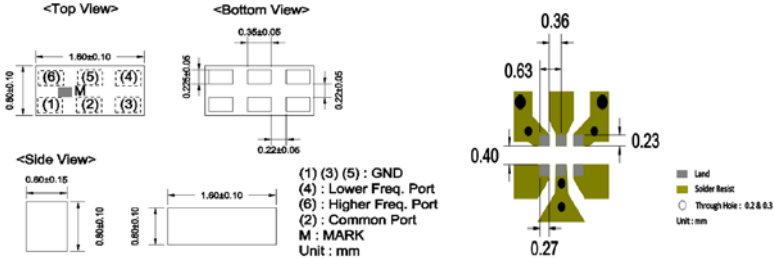
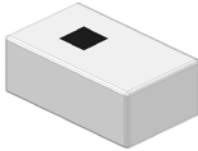
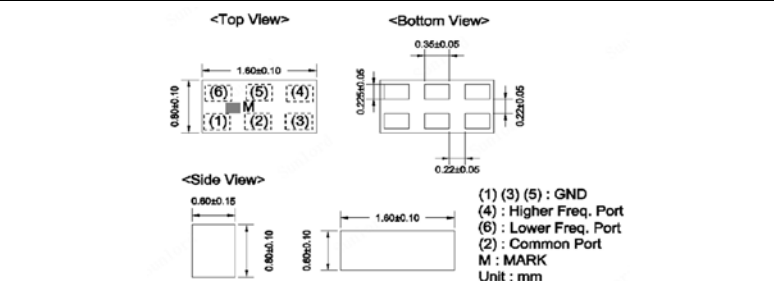
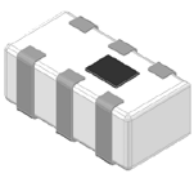
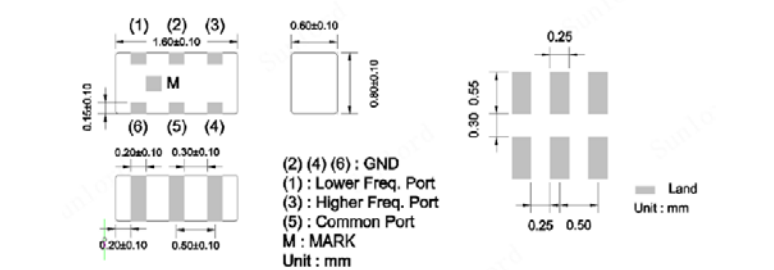
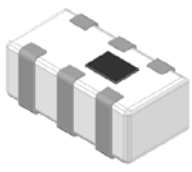
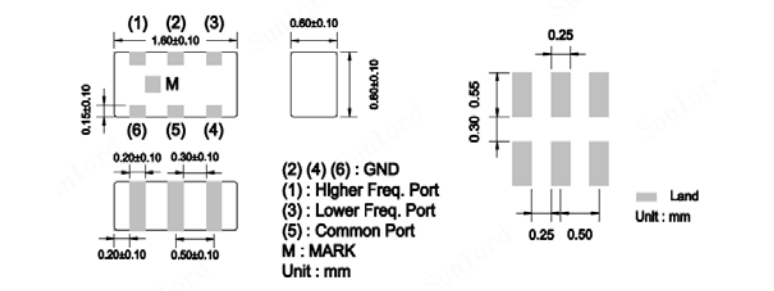
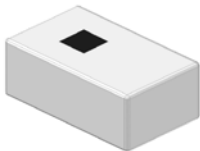
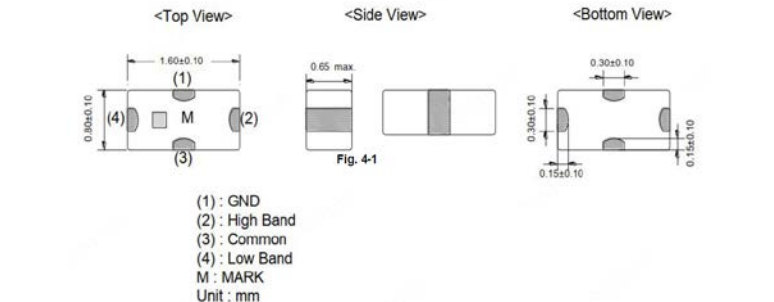
|             |                                |                            |
|-------------|--------------------------------|----------------------------|
| Type        | (LxW) (mm)                     | Center Frequency           |
| SLFD        | External Dimensions (LxW) (mm) | Example      Nominal Value |
| LC Diplexer | 15 [0402]      1x0.5           | 2R450G      2450MHz        |
|             | 18 [0603]      1.6x0.8         |                            |
|             | 21 [0805]      2x1.2           |                            |
|             | 22 [1008]      2.5x2           |                            |

|             |                             |
|-------------|-----------------------------|
| Series Code | Packing                     |
| 01, 02, etc | T      Tape Carrier Package |

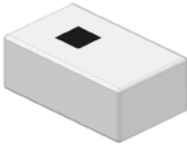
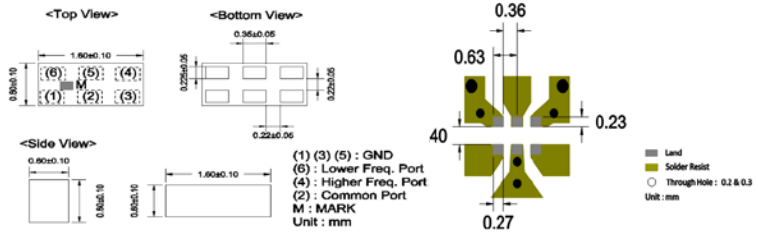
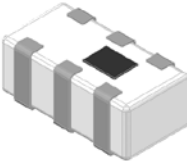
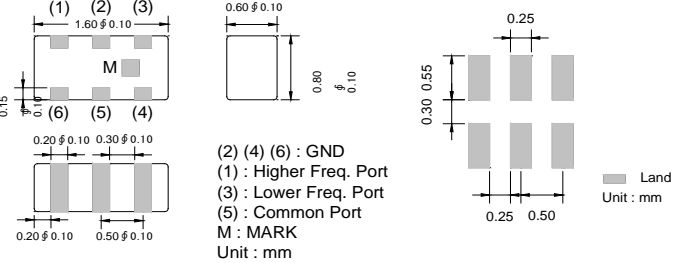
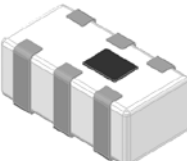
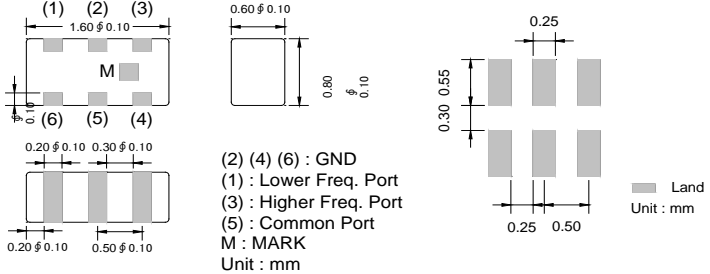
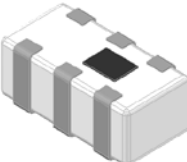
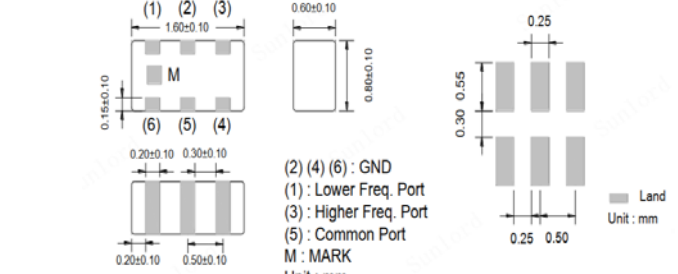
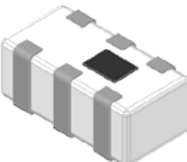
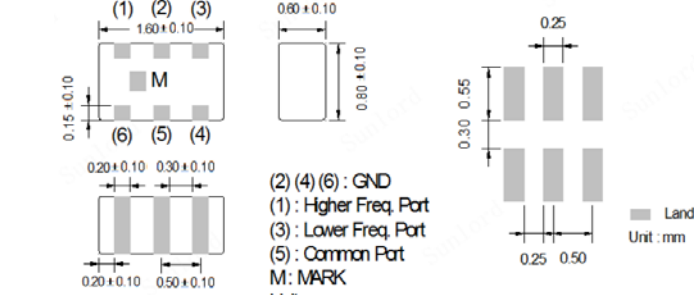
## SHAPE AND DIMENSIONS

|                     |                              |
|---------------------|------------------------------|
| Type: SLFD15 Series | Dimensions and Land Patterns |
|                     |                              |
| SLFD15-5R950G-04T   | Dimensions and Land Patterns |
|                     |                              |

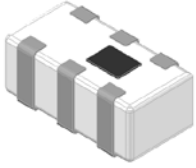
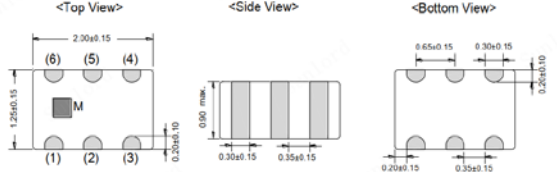
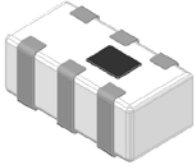
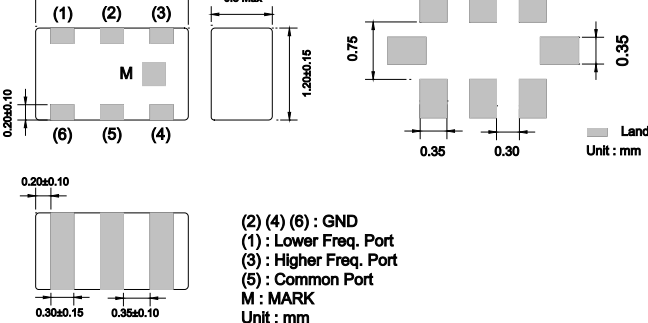
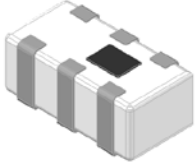
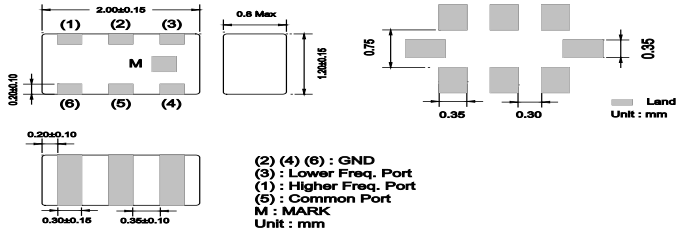
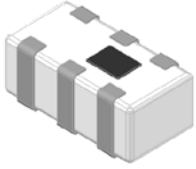
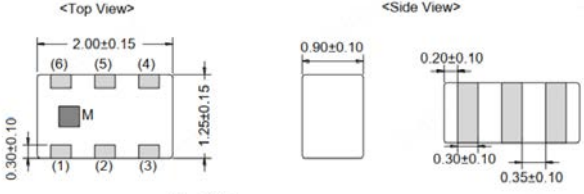
# SHAPE AND DIMENSIONS

|   |   |
|---|---|
| <p>SLFD18-2R200G-01T/<br/>SLFD18-5R950G-12T</p>  | <p>Dimensions and Land Patterns</p>  <p>(1) (3) (5) : GND<br/>(4) : Lower Freq. Port<br/>(6) : Higher Freq. Port<br/>(2) : Common Port<br/>M : MARK<br/>Unit : mm</p>   |
| <p>SLFD18-2R200G-02T/<br/>SLFD18-3R000G-31T</p>  | <p>Dimensions and Land Patterns</p>  <p>(1) (3) (5) : GND<br/>(4) : Higher Freq. Port<br/>(6) : Lower Freq. Port<br/>(2) : Common Port<br/>M : MARK<br/>Unit : mm</p>   |
| <p>SLFD18-2R450G-22/24T</p>                     | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/>(1) : Lower Freq. Port<br/>(3) : Higher Freq. Port<br/>(5) : Common Port<br/>M : MARK<br/>Unit : mm</p>  |
| <p>SLFD18-2R450G-23/25T</p>                    | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/>(1) : Higher Freq. Port<br/>(3) : Lower Freq. Port<br/>(5) : Common Port<br/>M : MARK<br/>Unit : mm</p> |
| <p>SLFD18-2R450G-26T</p>                       | <p>Dimensions and Land Patterns</p>  <p>(1) : GND<br/>(2) : High Band<br/>(3) : Common<br/>(4) : Low Band<br/>M : MARK<br/>Unit : mm</p>                              |

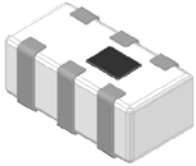
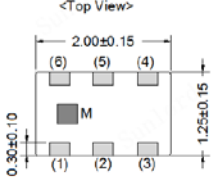
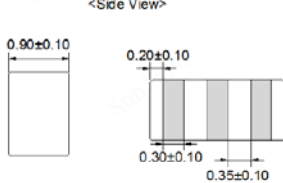
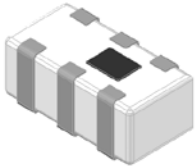
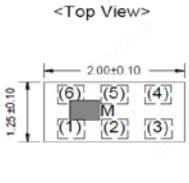
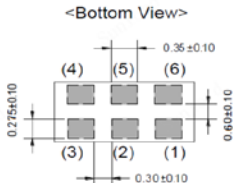

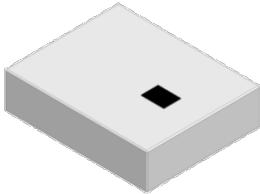
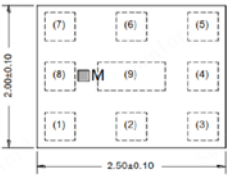
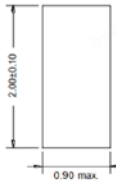
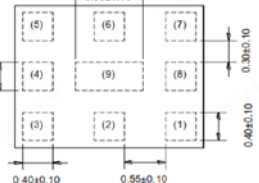
# SHAPE AND DIMENSIONS

|   |   |
|---|---|
| <p>SLFD18-2R600G-01T/<br/>SLFD18-5R950G-11T</p>  | <p>Dimensions and Land Patterns</p>  <p>(1) (3) (5) : GND<br/>(6) : Lower Freq. Port<br/>(4) : Higher Freq. Port<br/>(2) : Common Port<br/>M : MARK<br/>Unit : mm</p>   |
| <p>SLFD18-5R950G-01/07/35/41T</p>                | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/>(1) : Higher Freq. Port<br/>(3) : Lower Freq. Port<br/>(5) : Common Port<br/>M : MARK<br/>Unit : mm</p>   |
| <p>SLFD18-5R950G-02/08/36/42T</p>               | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/>(1) : Lower Freq. Port<br/>(3) : Higher Freq. Port<br/>(5) : Common Port<br/>M : MARK<br/>Unit : mm</p>  |
| <p>SLFD18-5R950G-03T</p>                       | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/>(1) : Lower Freq. Port<br/>(3) : Higher Freq. Port<br/>(5) : Common Port<br/>M : MARK<br/>Unit : mm</p> |
| <p>SLFD18-5R950G-04T</p>                       | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/>(1) : Higher Freq. Port<br/>(3) : Lower Freq. Port<br/>(5) : Common Port<br/>M : MARK<br/>Unit : mm</p> |

# SHAPE AND DIMENSIONS

|  |  |
|--|--|
| <p>SLFD21-1R400G-01/03T</p>   | <p>Dimensions and Land Patterns</p>  <p>(1) : GND<br/> (2) : Common<br/> (3) : GND<br/> (4) : High-band<br/> (5) : GND<br/> (6) : Low-band<br/> M : MARK<br/> Unit : mm</p>                        |
| <p>SLFD21-2R200G-01T</p>    | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/> (1) : Lower Freq. Port<br/> (3) : Higher Freq. Port<br/> (5) : Common Port<br/> M : MARK<br/> Unit : mm</p>                         |
| <p>SLFD21-2R200G-02T</p>    | <p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND<br/> (3) : Lower Freq. Port<br/> (1) : Higher Freq. Port<br/> (5) : Common Port<br/> M : MARK<br/> Unit : mm</p>                       |
| <p>SLFD21-2R200G-03T/<br/> SLFD21-2R690G-01T/<br/> SLFD21-5R950G-01T</p>  | <p>Dimensions and Land Patterns</p>  <p>(1) : GND<br/> (2) : Common Port<br/> (3) : GND<br/> (4) : Higher Freq. Port<br/> (5) : GND<br/> (6) : Lower Freq. Port<br/> M : MARK<br/> Unit : mm</p> |

# SHAPE AND DIMENSIONS

|   |  |
|---|--|
| <p>SLFD21-2R200G-04T/<br/>SLFD21-2R690G-02T/<br/>SLFD21-5R950G-02T</p>              | <p>Dimensions and Land Patterns</p>  |
|    | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>&lt;Top View&gt;</p>  </div> <div style="text-align: center;"> <p>&lt;Side View&gt;</p>  </div> </div> <p>(1) : GND<br/>(2) : Common Port<br/>(3) : GND<br/>(4) : Lower Freq. Port<br/>(5) : GND<br/>(6) : Higher Freq. Port<br/>M : MARK<br/>Unit : mm</p>   |
| <p>SLFD21-3R000G-31T</p>  | <p>Dimensions and Land Patterns</p>  |
|    | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>&lt;Top View&gt;</p>  </div> <div style="text-align: center;"> <p>&lt;Bottom View&gt;</p>  </div> <div style="text-align: center;"> <p>&lt;Side View&gt;</p>  </div> </div> <p>(1) (3) (5) : GND<br/>(4) : Higher Freq. Port<br/>(6) : Lower Freq. Port<br/>(2) : Common Port<br/>M : MARK<br/>Unit : mm</p> <p style="text-align: right;">Fig. 4-1</p> |
| <p>SLFD22-1R500G-31T/<br/>SLFD22-3R000G-31T/<br/>SLFD22-4R500G-31T</p>              | <p>Dimensions and Land Patterns</p>  |
|  | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>&lt;Top View&gt;</p>  </div> <div style="text-align: center;"> <p>&lt;Side View&gt;</p>  </div> <div style="text-align: center;"> <p>&lt;Bottom View&gt;</p>  </div> </div> <p>(2) : Common Port<br/>(5) : High band Port<br/>(7) : Low band Port<br/>(1) (3) (4) (6) (8) (9) : GND<br/>M : MARK<br/>Unit : mm</p>                                |

# SPECIFICATIONS

## SLFD15 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                                    |
| SLFD15-5R9<br>50G-01T | 50                       | Low Band        | 2400~2500 | 0.5                    | -                     | -                        | 16 dB Min. at<br>4800~6000 MHz        |
|                       |                          |                 |           |                        |                       |                          | 15 dB Min. at<br>7200~7500 MHz        |
|                       |                          |                 |           |                        |                       |                          | 27 dB Min. at<br>700~2025 MHz         |
|                       |                          | High Band       | 5150~5950 | 1.5                    |                       |                          | 28 dB Min. at<br>2400~2690 MHz        |
|                       |                          |                 |           |                        |                       |                          | 10 dB Min. at<br>3500~3700 MHz        |
|                       |                          |                 |           |                        |                       |                          | 11 dB Min. at<br>7250~7800 MHz        |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at<br>10300~11700 MHz      |
| SLFD15-5R<br>950G-03T | 50                       | Low Band        | 2400~2500 | 0.5                    | -                     | -                        | 18 dB Min. at<br>4800~6000 MHz        |
|                       |                          |                 |           |                        |                       |                          | 15 dB Min. at<br>5150~7125 MHz        |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at<br>7200~7500 MHz        |
|                       |                          | High Band       | 5150~7125 | 0.95                   |                       |                          | 24 dB Min. at<br>500~2400 MHz         |
|                       |                          |                 |           |                        |                       |                          | 26 dB Min. at<br>2400~2500 MHz        |
|                       |                          |                 |           |                        |                       |                          | 19 dB Min. at<br>2500~2690 MHz        |
|                       |                          |                 |           |                        |                       |                          | 9 dB Min. at<br>10300~11900<br>MHz    |
|                       |                          |                 |           |                        |                       |                          | 13.5 dB Min. at<br>11900~12490<br>MHz |
|                       |                          |                 |           |                        |                       |                          | 11.5 dB Min. at<br>12490~14250<br>MHz |
|                       |                          |                 |           |                        |                       |                          | 8 dB Min. at<br>15510~21370<br>MHz    |

## SPECIFICATIONS

### SLFD15 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                            |
| SLFD15-5R<br>950G-04T | 50                       | Low Band        | 2400~2500 | 0.5                    | -                     | -                        | 35 dB Min. at 4800~5000 MHz   |
|                       |                          |                 |           |                        |                       |                          | 25 dB Min. at 7200~7500 MHz   |
|                       |                          | High Band       | 5150~5950 | 0.9                    | -                     | -                        | 25 dB Min. at 300~2100MHz     |
|                       |                          |                 |           |                        |                       |                          | 32 dB Min. at 2400~2700MHz    |
|                       |                          |                 |           |                        |                       |                          | 10 dB Min. at 7200MHz         |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at 9800~11950 MHz  |
|                       |                          |                 |           |                        |                       |                          | 15 dB Min. at 14700~17850 MHz |
| SLFD15-5R<br>950G-05T | 50                       | Low Band        | 2400~2500 | 0.5                    | -                     | -                        | 23 dB Min. at 4800~6000 MHz   |
|                       |                          |                 |           |                        |                       |                          | 23 dB Min. at 7200~7500 MHz   |
|                       |                          | High Band       | 4900~5950 | 0.9                    | -                     | -                        | 25 dB Min. at 30~2400 MHz     |
|                       |                          |                 |           |                        |                       |                          | 27 dB Min. at 2400~2500 MHz   |
|                       |                          |                 |           |                        |                       |                          | 23 dB Min. at 2500~2690 MHz   |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at 10300~11900 MHz |

### 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                          |
| SLFD18-2R2<br>00G-01T | 50                       | Low Band        | 698~960   | 0.8                    | -                     | -                        | 20 dB Min. @ 698~960MHz     |
|                       |                          | High Band       | 1710~2700 | 0.7                    |                       |                          | 25 dB Min. @ 1710~2700MHz   |
| SLFD18-2R<br>200G-02T | 50                       | Low Band        | 698~960   | 0.8                    | -                     | -                        | 25 dB Min. at 1710~2700 MHz |
|                       |                          | High Band       | 1710~2700 | 0.7                    |                       |                          | 20 dB Min. at 698~960 MHz   |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at 5150~5850 MHz |
| SLFD18-2R<br>450G-22T | 50                       | Low Band        | 1570~1610 | 0.5                    | -                     | -                        | 20 dB Min. at 2400~2500MHz  |
|                       |                          | High Band       | 2400~2500 | 0.5                    |                       |                          | 20 dB Min. at 1570~1610MHz  |

# 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                            |
| SLFD18-2R<br>450G-23T | 50                       | Low Band        | 1570~1610                  | 0.45                   | -                     | -                        | 20 dB Min. at 2400~2500MHz    |
|                       |                          | High Band       | 2400~2500                  | 0.5                    |                       |                          | 20 dB Min. at 1570~1610MHz    |
| SLFD18-2R<br>450G-24T | 50                       | Low Band        | 1560~1607                  | 0.65                   | -                     | -                        | 15 dB Min. at 2300~2700 MHz   |
|                       |                          | High Band       | 2300~2700                  | 0.75                   |                       |                          | 17 dB Min. at 1560~1607 MHz   |
| SLFD18-2R<br>450G-25T | 50                       | Low Band        | 1560~1607                  | 0.65                   | -                     | -                        | 15 dB Min. at 2300~2700 MHz   |
|                       |                          | High Band       | 2300~2700                  | 0.75                   |                       |                          | 17 dB Min. at 1560~1607 MHz   |
| SLFD18-3R<br>000G-31T | 50                       | Low Band        | 698~2690                   | 0.9                    | -                     | 2                        | 13 dB Min. at 3400~3800MHz    |
|                       |                          |                 | 20 dB Min. at 5150~5850MHz |                        |                       |                          |                               |
|                       |                          | High Band       | 3400~3800                  | 1                      |                       |                          | 14 dB Min. at 698~2690MHz     |
|                       |                          |                 | 5150~5850                  | 0.7                    |                       |                          | 18 dB Min. at 10300~11700 MHz |
| SLFD18-5R<br>950G-01T | 50                       | Low Band        | 2400~2500                  | 0.65                   | -                     | 2                        | 35 dB Min. at 4800~5000MHz    |
|                       |                          |                 |                            |                        |                       |                          | 30 dB Min. at 7200~7500MHz    |
|                       |                          | High Band       | 4900~5950                  | 0.75                   |                       |                          | 28 dB Min. at 30~2100MHz      |
|                       |                          |                 |                            |                        |                       |                          | 32 dB Min. at 2400~2700MHz    |
|                       |                          |                 |                            |                        |                       |                          | 25 dB Min. at 9800~11900 MHz  |
|                       |                          |                 |                            |                        |                       |                          | 15 dB Min. at 14700~17850 MHz |



# 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                            |
| SLFD18-5R9<br>50G-02T | 50                       | Low Band        | 2400~2500 | 0.55                   | -                     | 2                        | 30 dB Min. at 4800~5000MHz    |
|                       |                          |                 |           |                        |                       |                          | 25 dB Min. at 7200~7500MHz    |
|                       |                          | High Band       | 4900~5950 | 0.75                   |                       |                          | 25 dB Min. at 30~2100 MHz     |
|                       |                          |                 |           |                        |                       |                          | 30 dB Min. at 2400~2500 MHz   |
|                       |                          |                 |           |                        |                       |                          | 12 dB Min. at 8100~8900 MHz   |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at 9800~11900 MHz  |
|                       |                          |                 |           |                        |                       |                          | 15 dB Min. at 14700~17850 MHz |
| SLFD18-5R9<br>50G-03T | 50                       | Low Band        | 2400~2500 | 0.5                    | -                     | 2                        | 35 dB Min. at 4800~5000MHz    |
|                       |                          |                 |           |                        |                       |                          | 25 dB Min. at 7200~7500MHz    |
|                       |                          | High Band       | 4900~5950 | 0.9                    |                       |                          | 25 dB Min. at 300~2100MHz     |
|                       |                          |                 |           |                        |                       |                          | 32 dB Min. at 2400~2700MHz    |
|                       |                          |                 |           |                        |                       |                          | 10 dB Min. at 7200MHz         |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at 9800~11950MHz   |
|                       |                          |                 |           |                        |                       |                          | 15 dB Min. at 14700~17850MHz  |
| SLFD18-5R9<br>50G-04T | 50                       | Low Band        | 2400~2500 | 0.5                    | -                     | 2                        | 25 dB Min. at 300~2100MHz     |
|                       |                          |                 |           |                        |                       |                          | 32 dB Min. at 2400~2700MHz    |
|                       |                          |                 |           |                        |                       |                          | 35 dB Min. at 4800~5000MHz    |
|                       |                          |                 |           |                        |                       |                          | 10 dB Min. at 7200MHz         |
|                       |                          | High Band       | 4900~5950 | 0.9                    |                       |                          | 25 dB Min. at 7200~7500MHz    |
|                       |                          |                 |           |                        |                       |                          | 20 dB Min. at 9800~11950 MHz  |
|                       |                          |                 |           |                        |                       |                          | 15 dB Min. at 14700~17850 MHz |

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## 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                          |                              |
| SLFD18-5R9<br>50G-07T | Complex Conjugate to IC chipset | Low Band        | 2400~2500 | 0.4                          | -                     | 1.5                      | 21 dB Min. at 4800~5000MHz  |                              |
|                       |                                 |                 |           |                              |                       |                          | 23 dB Min. at 5000~5950MHz  |                              |
|                       |                                 |                 |           |                              |                       |                          | 25 dB Min. at 7200~7500MHz  |                              |
|                       | 50                              | High Band       | 4900~5950 | 0.6                          |                       | 1.8                      | 25 dB Min. at 824~2170MHz   |                              |
|                       |                                 |                 |           |                              |                       |                          | 28 dB Min. at 2400~2700MHz  |                              |
|                       |                                 |                 |           |                              |                       |                          | 20 dB Min. at 9800~11900MHz |                              |
| SLFD18-5R9<br>50G-08T | Complex Conjugate to IC chipset | Low Band        | 2400~2500 | 0.4                          | -                     | 1.5                      | 21 dB Min. at 4800~5000MHz  |                              |
|                       |                                 |                 |           |                              |                       |                          | 23 dB Min. at 5000~5950MHz  |                              |
|                       |                                 |                 |           |                              |                       |                          | 25 dB Min. at 7200~7500MHz  |                              |
|                       | 50                              | High Band       | 4900~5950 | 0.6                          |                       | 1.8                      | 25 dB Min. at 824~2170MHz   |                              |
|                       |                                 |                 |           |                              |                       |                          | 28 dB Min. at 2400~2700MHz  |                              |
|                       |                                 |                 |           |                              |                       |                          | 20 dB Min. at 9800~11900MHz |                              |
| SLFD18-5R9<br>50G-11T | 50                              | Low Band        | 698~2690  | 0.35 dB Max. at 698~960MHz   | -                     | 1.8                      | 32 dB Min. at 4800~5000MHz  |                              |
|                       |                                 |                 |           | 0.45 dB Max. at 1427~2400MHz |                       |                          | 35 dB Min. at 5000~5950MHz  |                              |
|                       |                                 |                 |           | 0.60 dB Max. at 2400~2500MHz |                       |                          | 20 dB Min. at 7200~7500MHz  |                              |
|                       |                                 |                 |           | 0.60 dB Max. at 2500~2690MHz |                       |                          | 19 dB Min. at 7635~8070MHz  |                              |
|                       |                                 | High Band       | 5150~5850 | 0.7                          |                       | -                        | 1.8                         | 32 dB Min. at 698~1805MHz    |
|                       |                                 |                 |           |                              |                       |                          |                             | 32 dB Min. at 1805~1950MHz   |
|                       |                                 |                 |           |                              |                       |                          |                             | 34 dB Min. at 1950~2400MHz   |
|                       |                                 |                 |           |                              |                       |                          |                             | 40 dB Min. at 2400~2500MHz   |
|                       |                                 |                 |           |                              |                       |                          |                             | 32 dB Min. at 2500~2690MHz   |
|                       |                                 |                 |           |                              |                       |                          |                             | 16 dB Min. at 10300~11700MHz |
|                       |                                 |                 |           |                              |                       |                          |                             | Z                            |

# 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                           |
| SLFD18-5R9<br>50G-12T | 50                       | Low Band        | 698~2690                     | 0.35 dB Max. at 698~960MHz   | -                     | 1.8                      | 32 dB Min. at 4800~5000MHz   |
|                       |                          |                 |                              | 0.45 dB Max. at 1427~2400MHz |                       |                          | 35 dB Min. at 5000~5950MHz   |
|                       |                          |                 |                              | 0.60 dB Max. at 2400~2500MHz |                       |                          | 20 dB Min. at 7200~7500MHz   |
|                       |                          |                 |                              | 0.60 dB Max. at 2500~2690MHz |                       |                          | 19 dB Min. at 7635~8070MHz   |
|                       |                          | High Band       | 5150~5850                    | 0.7                          |                       |                          | 32 dB Min. at 698~1805MHz    |
|                       |                          |                 |                              |                              |                       |                          | 32 dB Min. at 1805~1950MHz   |
|                       |                          |                 |                              |                              |                       |                          | 34 dB Min. at 1950~2400MHz   |
|                       |                          |                 |                              |                              |                       |                          | 40 dB Min. at 2400~2500MHz   |
|                       |                          |                 | 32 dB Min. at 2500~2690MHz   |                              |                       |                          |                              |
|                       |                          |                 | 20 dB Min. at 10300~11700MHz |                              |                       |                          |                              |
| SLFD18-5R9<br>50G-35T | 50                       | Low Band        | 2400~2500                    | 0.85                         | -                     | -                        | 20 dB Min. at 700~1300MHz    |
|                       |                          |                 |                              |                              |                       |                          | 25 dB Min. at 4800~5000MHz   |
|                       |                          |                 |                              |                              |                       |                          | 30 dB Min. at 7200~7500MHz   |
|                       |                          | High Band       | 4900~6000                    | 1                            |                       |                          | 27 dB Min. at 1200~1500MHz   |
|                       |                          |                 |                              |                              |                       |                          | 26 dB Min. at 1600~2000MHz   |
|                       |                          |                 |                              |                              |                       |                          | 25 dB Min. at 2300~3000MHz   |
|                       |                          |                 |                              |                              |                       |                          | 20 dB Min. at 98000~12000MHz |
|                       |                          |                 |                              |                              |                       |                          | 15 dB Min. at 14700~18000MHz |

## 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                         |
| SLFD18-5R9<br>50G-36T | 50                       | Low Band                     | 2400~2500 | 0.85                   | -                     | -                        | 20 dB Min. at 700~1300MHz  |
|                       |                          |                              |           |                        |                       |                          | 25 dB Min. at 4800~5000MHz |
|                       |                          | 30 dB Min. at 7200~7500MHz   |           |                        |                       |                          |                            |
|                       |                          | High Band                    | 4900~6000 | 1                      |                       |                          | 27 dB Min. at 1200~1500MHz |
|                       |                          |                              |           |                        |                       |                          | 26 dB Min. at 1600~2000MHz |
|                       |                          | 25 dB Min. at 2300~3000MHz   |           |                        |                       |                          |                            |
|                       |                          | 20 dB Min. at 9800~12000MHz  |           |                        |                       |                          |                            |
|                       |                          | 15 dB Min. at 14700~18000MHz |           |                        |                       |                          |                            |

### 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                          |
| SLFD21-1R40<br>0G-01T | 50                       | Low Band        | 698~960   | 0.8                    | -                     | 2                        | 22 dB Min. at 1427~2690 MHz |
|                       |                          | High Band       | 1427~2690 | 0.75                   |                       |                          | 20 dB Min. at 698~915 MHz   |
|                       |                          |                 |           |                        |                       |                          | 17 dB Min. at 915~960 MHz   |
| SLFD21-1R40<br>0G-03T | 50                       | Low Band        | 570~960   | 0.75                   | -                     | 2                        | 20 dB Min. at 1427~2700MHz  |
|                       |                          | High Band       | 1427~2690 | 0.85                   |                       |                          | 20 dB Min. at 570~960MHz    |
| SLFD21-2R20<br>0G-01T | 50                       | Low Band        | 698~746   | 0.4                    | -                     | -                        | 25dB Min. at 698~960MHz     |
|                       |                          |                 | 746~960   | 0.5                    |                       |                          | 30dB Min. at 1710~2170MHz   |
|                       |                          | High Band       | 1710~2400 | 0.7                    |                       |                          | 30dB Min. at 2170~2400MHz   |
|                       |                          |                 |           |                        |                       |                          | 30dB Min. at 2400~2700MHz   |

# 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                          |                           |                            |                             |
| SLFD21-2R2<br>00G-02T | 50                       | Low Band        | 698~746   | 0.4                      | -                     | -                        | 25dB Min. at 698~960MHz     |                           |                            |                             |
|                       |                          |                 | 746~960   | 0.5                      |                       |                          | 30dB Min. at 1710~2170MHz   |                           |                            |                             |
|                       |                          | High Band       | 1710~2400 | 0.7                      |                       |                          | 30dB Min. at 2170~2400MHz   |                           |                            |                             |
|                       |                          |                 |           |                          |                       |                          | 30dB Min. at 2400~2700MHz   |                           |                            |                             |
| SLFD21-2R2<br>00G-03T | 50                       | Low Band        | 698~746   | 0.4                      | -                     | 2                        | 30 dB Min. at 1710~2170MHz  |                           |                            |                             |
|                       |                          |                 | 746~960   | 0.5                      |                       |                          | 30 dB Min. at 2170~2400MHz  |                           |                            |                             |
|                       |                          | High Band       | 1710~2400 | 0.6                      |                       |                          | 32 dB Min. at 2400~2700MHz  |                           |                            |                             |
|                       |                          |                 |           |                          |                       |                          | 25 dB Min. at 698~960MHz    |                           |                            |                             |
| SLFD21-2R2<br>00G-04T | 50                       | Low Band        | 698~746   | 0.4                      | -                     | 2                        | 30 dB Min. at 1710~2170MHz  |                           |                            |                             |
|                       |                          |                 | 746~960   | 0.5                      |                       |                          | 30 dB Min. at 2170~2400MHz  |                           |                            |                             |
|                       |                          | High Band       | 1710~2400 | 0.6                      |                       |                          | 32 dB Min. at 2400~2700MHz  |                           |                            |                             |
|                       |                          |                 |           |                          |                       |                          | 25 dB Min. at 698~960MHz    |                           |                            |                             |
| SLFD21-2R6<br>90G-01T | 50                       | Low Band        | 698~2170  | 0.4 dB at 698-960 MHz    | -                     | 2                        | 10 dB Min. at 2402~2482 MHz |                           |                            |                             |
|                       |                          |                 |           | 0.5 dB at 1420-1610 MHz  |                       |                          |                             |                           |                            |                             |
|                       |                          |                 |           | 0.65 dB at 1710-1920 MHz |                       |                          |                             |                           |                            |                             |
|                       |                          |                 |           | 0.8 dB at 1920-1990 MHz  |                       |                          |                             |                           |                            |                             |
|                       |                          |                 |           | 1.40 dB at 1990-2170 MHz |                       |                          |                             |                           |                            |                             |
|                       |                          | High Band       | 2496~4200 | 1.35 dB at 2496-2515 MHz |                       |                          | 2 Max. at 2496~2690 MHz     | 20 dB Min. at 698~960 MHz |                            |                             |
|                       |                          |                 |           | 1.2 dB at 2515-2675 MHz  |                       |                          |                             |                           |                            |                             |
|                       |                          |                 |           | 0.9 dB at 2675-2690 MHz  |                       |                          |                             |                           | 2.33 Max. at 3300~4200 MHz | 15 dB Min. at 1710~2170 MHz |
|                       |                          |                 |           | 1.1 dB at 3300~4200 MHz  |                       |                          |                             |                           |                            |                             |
|                       |                          |                 |           |                          |                       |                          |                             |                           |                            |                             |

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## 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                           |
| SLFD21-2R6<br>90G-02T | 50                       | Low Band        | 698~2170  | 0.4 dB at 698-960 MHz         | -                     | 2                        | 10 dB Min. at 2402~2482 MHz  |
|                       |                          |                 |           | 0.5 dB at 1420-1610 MHz       |                       |                          |                              |
|                       |                          |                 |           | 0.65 dB at 1710-1920 MHz      |                       |                          |                              |
|                       |                          |                 |           | 0.8 dB at 1920-1990 MHz       |                       |                          |                              |
|                       |                          |                 |           | 1.40 dB at 1990-2170 MHz      |                       |                          |                              |
|                       |                          | High Band       | 2496~4200 | 1.35 dB at 2496-2515 MHz      |                       |                          | 20 dB Min. at 698~960 MHz    |
|                       |                          |                 |           | 1.2 dB at 2515-2675 MHz       |                       |                          | 15 dB Min. at 1710~2170 MHz  |
|                       |                          |                 |           | 0.9 dB at 2675-2690 MHz       |                       |                          |                              |
|                       |                          |                 |           | 1.1 dB at 3300~4200 MHz       |                       |                          |                              |
|                       |                          |                 |           | 2.33 Max. at 3300~4200 MHz    |                       |                          |                              |
| SLFD21-3R0<br>00G-31T | 50                       | Low Band        | 617~2690  | 0.35 dB Max. at 617-960MHz    | -                     | 2                        | 18 dB Min. at 3300~3400MHz   |
|                       |                          |                 |           | 0.45 dB Max. at 1427-1511 MHz |                       |                          | 23dB Min. at 3400~3800MHz    |
|                       |                          |                 |           | 0.55dB Max. at 1710-2170MHz   |                       |                          | 30dB Min. at 5150~5925MHz    |
|                       |                          |                 |           | 0.75 dB Max. at 2300~2496 MHz |                       |                          | 30 dB Min. at 617-960MHz     |
|                       |                          |                 |           | 0.9dB Max. at 2496~2690 MHz   |                       |                          | 30 dB Min. at 1427-1511 MHz  |
|                       |                          | High Band       | 3300~5925 | 1.3dB Max. at 3300~3400MHz    |                       |                          | 25dB Min. at 1710-2170MHz    |
|                       |                          |                 |           | 1dB Max. at 3400~3800MHz      |                       |                          | 22 dB Min. at 2170~2690 MHz  |
|                       |                          |                 |           | 0.5 dB Max. at 5150~5925MHz   |                       |                          | 25dB Min. at 10300~11850 MHz |
|                       |                          |                 |           | 5dB Min. at 15450~17775 MHz   |                       |                          |                              |

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## 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                           | dB   |
| SLFD21-5R9<br>50G-01T | 50                       | Low Band        | 2400~2500 | 0.45                   | 15                    | 20dB Min. at<br>5150~5850MHz | 23dB Min. at<br>4800~5000MHz<br>20dB Min. at<br>7200~7500MHz       |
|                       |                          | High Band       | 4900~5950 | 0.5                    | 12                    | 20dB Min. at<br>2400~2500MHz | 25dB Min. at<br>2400~2500MHz<br>20dB Min. at<br>10300~11700<br>MHz |
| SLFD21-5R9<br>50G-02T | 50                       | Low Band        | 2400~2500 | 0.45                   | 15                    | 20dB Min. at<br>5150~5850MHz | 23dB Min. at<br>4800~5000MHz<br>20dB Min. at<br>7200~7500MHz       |
|                       |                          | High Band       | 4900~5950 | 0.5                    | 12                    | 20dB Min. at<br>2400~2500MHz | 25dB Min. at<br>2400~2500MHz<br>20dB Min. at<br>10300~11700<br>MHz |

## SLFD22 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                             | dB                             |                                |
| SLFD22-1R5<br>00G-31T            | 50                             | Low Band                       | 698~1511      | 0.80 dB Max. at<br>698~960 MHz   | --                    | 15 dB Min. at<br>698~960 MHz   | 14 dB Min. at<br>1710~1785 MHz |                                |
|                                  |                                |                                |               | 1.50 dB Max. at<br>1447~1463 MHz |                       |                                | 15 dB Min. at<br>1805~1880 MHz |                                |
|                                  |                                |                                |               | 1.50 dB Max. at<br>1452~1496 MHz |                       |                                | 15 dB Min. at<br>1880~2025 MHz |                                |
|                                  |                                |                                |               |                                  |                       |                                | 15 dB Min. at<br>1452~1511 MHz | 15 dB Min. at<br>2110~2200 MHz |
|                                  |                                |                                |               |                                  |                       |                                | 15 dB Min. at<br>1710~1785 MHz | 15 dB Min. at<br>2300~2400 MHz |
|                                  |                                |                                |               | 15 dB Min. at<br>1805~1880 MHz   |                       |                                | 20 dB Min. at<br>2496~2690 MHz |                                |
|                                  |                                | High Band                      | 1710~<br>3800 | 1.80 dB Max. at<br>1496~1511 MHz |                       | 20 dB Min. at<br>3400~3800 MHz |                                |                                |
|                                  |                                |                                |               | 1.50 dB Max. at<br>1710~1785 MHz |                       | 15 dB Min. at<br>3800~5950 MHz |                                |                                |
|                                  |                                |                                |               | 1.20 dB Max. at<br>1805~1880 MHz |                       | 15 dB Min. at<br>698~960 MHz   |                                |                                |
|                                  |                                |                                |               | 10 dB Max. at<br>1880~2025 MHz   |                       | 15 dB Min. at<br>2110~2200 MHz |                                |                                |
|                                  |                                |                                |               | 0.75 dB Max. at<br>2110~2200 MHz |                       | 15 dB Min. at<br>2300~2400 MHz |                                |                                |
|                                  |                                |                                |               | 0.75 dB Max. at<br>2300~2400 MHz |                       | 20 dB Min. at<br>2496~2690 MHz |                                |                                |
| 0.75 dB Max. at<br>2496~2690 MHz | 15 dB Min. at<br>1452~1511 MHz |                                |               |                                  |                       |                                |                                |                                |
| 1.30 dB Max. at<br>3400~3800 MHz |                                | 20 dB Min. at<br>3400~3800 MHz |               |                                  |                       |                                |                                |                                |
|                                  |                                | 10 dB Min. at<br>4900~5950 MHz |               |                                  |                       |                                |                                |                                |

# SPECIFICATIONS

## SLFD22 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                            |
| SLFD22-3R00<br>0G-31T | 50                       | Low Band        | 617~2690  | 0.40 dB Max. at 617~960 MHz   | -                     | 20 dB Min. at 617~960 MHz   | 15 dB Min. at 3300~3400 MHz   |
|                       |                          |                 |           | 0.50 dB Max. at 1427~1661 MHz |                       | 15 dB Min. at 1427~1661 MHz | 20 dB Min. at 3400~3800 MHz   |
|                       |                          |                 |           | 0.60 dB Max. at 1710~2200 MHz |                       | 15 dB Min. at 1710~2200 MHz | 20 dB Min. at 3800~4200 MHz   |
|                       |                          |                 |           | 0.90 dB Max. at 2300~2690 MHz |                       | 18 dB Min. at 2300~2690 MHz | 20 dB Min. at 4400~5000 MHz   |
|                       |                          |                 |           |                               |                       | 15 dB Min. at 3300~3400 MHz | 20 dB Min. at 5150~5950 MHz   |
|                       |                          |                 |           |                               |                       | 20 dB Min. at 3400~3800 MHz | 20 dB Min. at 617~960 MHz     |
|                       |                          | High Band       | 3300~5950 | 0.90 dB Max. at 3400~4200 MHz |                       | 20 dB Min. at 3800~4200 MHz | 18 dB Min. at 1427~1661 MHz   |
|                       |                          |                 |           | 0.80 dB Max. at 4400~5000 MHz |                       | 20 dB Min. at 4400~5000 MHz | 18 dB Min. at 2300~2690 MHz   |
|                       |                          |                 |           |                               |                       | 20 dB Min. at 5150~5950 MHz | 20 dB Min. at 10300~11700 MHz |
|                       |                          |                 |           |                               |                       |                             | 15 dB Min. at 15450~17550 MHz |
|                       |                          |                 |           |                               |                       |                             |                               |
|                       |                          |                 |           |                               |                       |                             |                               |



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## SLFD22 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                          |                             |
| SLFD22-4R500<br>G-31T         | 50                       | Low Band        | 1427~4200 | 0.40 dB Max. at 1427~1661 MHz | -                     | 18 dB Min. at 1427~1661 MHz   | 18 dB Min. at 5150~5925 MHz |                             |
|                               |                          |                 |           | 0.50 dB Max. at 1710~2200 MHz |                       |                               |                             | 18 dB Min. at 1710~2200 MHz |
|                               |                          |                 |           | 0.50 dB Max. at 2300~2690 MHz |                       |                               |                             | 18 dB Min. at 2300~2690 MHz |
|                               |                          |                 |           | 0.80 dB Max. at 3300~3800 MHz |                       |                               |                             | 18 dB Min. at 3300~3400 MHz |
|                               |                          |                 |           | 0.90 dB Max. at 3800~4200 MHz |                       |                               |                             | 18 dB Min. at 3400~3800 MHz |
|                               |                          | High Band       | 5150~5925 | 1.50 dB Max. at 5150~5250 MHz |                       | 20 dB Min. at 700~2690 MHz    |                             |                             |
|                               |                          |                 |           |                               |                       | 33 dB Min. at 2550~2690 MHz   |                             |                             |
|                               |                          |                 |           |                               |                       | 20 dB Min. at 3300~3800 MHz   |                             |                             |
|                               |                          |                 |           | 1.40 dB Max. at 5250~5330 MHz |                       | 18 dB Min. at 3800~4200 MHz   |                             |                             |
|                               |                          |                 |           |                               |                       | 6 dB Min. at 6900~7100 MHz    |                             |                             |
|                               |                          |                 |           |                               |                       | 15 dB Min. at 7200~7800 MHz   |                             |                             |
|                               |                          |                 |           | 1.40 dB Max. at 5490~5730 MHz |                       | 15 dB Min. at 7800~9800 MHz   |                             |                             |
|                               |                          |                 |           |                               |                       | 15 dB Min. at 9800~11700 MHz  |                             |                             |
|                               |                          |                 |           |                               |                       | 1.40 dB Max. at 5730~5925 MHz | 18 dB Min. at 5150~5925 MHz |                             |
| 11 dB Min. at 14700~17850 MHz |                          |                 |           |                               |                       |                               |                             |                             |

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