

Triple Band Antenna Switch Module – SLASM T1 Series

Operating Temp. : -40°C~+85°C



FEATURES

- Small and low profile, high integration
- Low insertion loss, high attenuation, high isolation
- Excellent solderability

APPLICATIONS

- GSM900/1800/1900 or GSM850/1800/1900 mobile communication system

PRODUCT IDENTIFICATION

SLASM

①

| | |
|-------|-----------------------|
| Type | |
| SLASM | Antenna Switch Module |

33

②

| | |
|--------------------------------|---------|
| External Dimensions (L×W) (mm) | |
| 33 [1212] | 3.2×3.2 |

T1

③

CL1

④


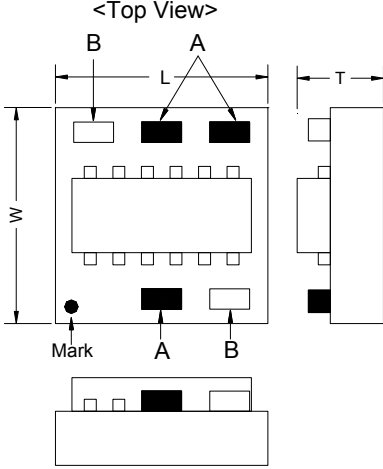
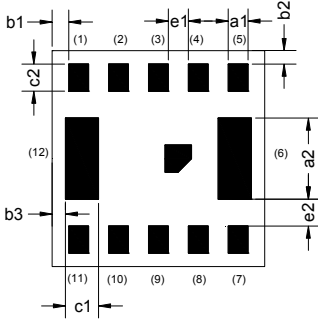
| | |
|---------------|--|
| Material Code | |
| CL1 | |

T

⑤

| | |
|---------|-------------|
| Packing | |
| T | Tape & Reel |

SHAPE AND DIMENSIONS

| | |
|---|---|
| Type: SLASM33T1CL1T | Dimensions (mm) |
|  | <p><Top View></p>  <p><Bottom View></p>  |

SHAPE AND DIMENSIONS

| Mark | Meaning |
|------|------------------|
| A | Resistor (Black) |
| B | Inductor (White) |

Unit: mm

| Mark | Dimensions | Mark | Dimensions | Mark | Dimensions |
|------|------------|------|------------|------|------------|
| L | 3.2±0.2 | a2 | 1.2±0.1 | c1 | 0.5±0.1 |
| W | 3.2±0.2 | b1 | 0.25±0.20 | c2 | 0.4±0.1 |
| T | 1.4Max | b2 | 0.2±0.2 | e1 | 0.3±0.1 |
| a1 | 0.3±0.1 | b3 | 0.2±0.2 | e2 | 0.4±0.1 |

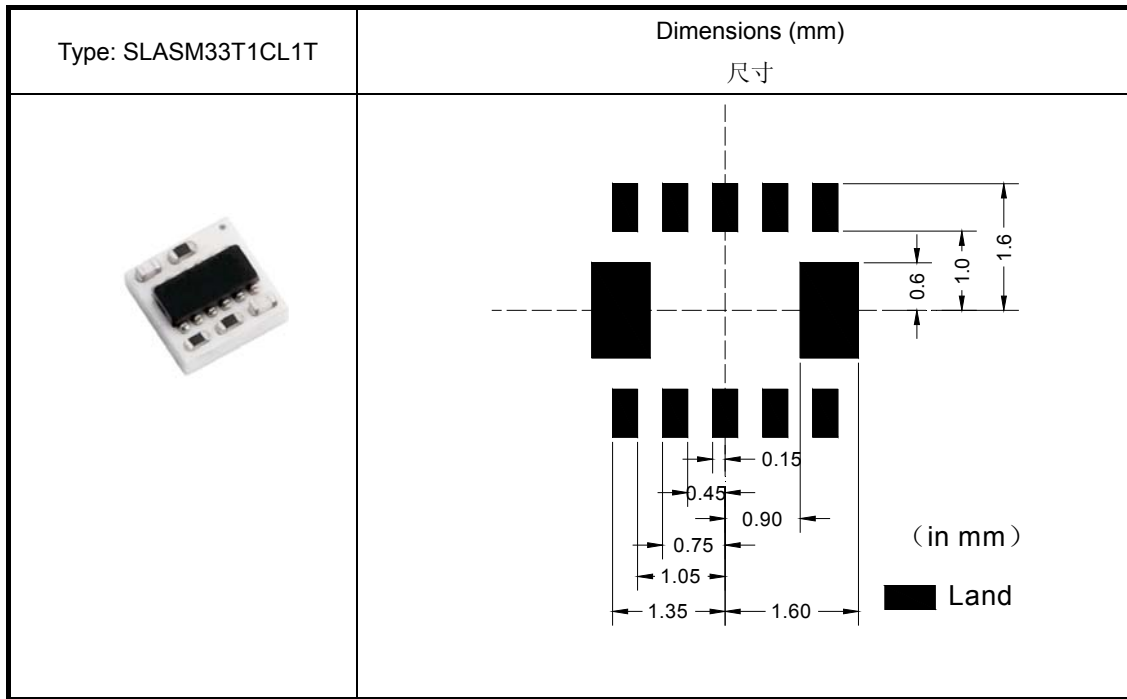
TERMINAL CONFIGUTATION

| Terminal No. | Terminal Name | Terminal No. | Terminal Name |
|--------------|-----------------|--------------|---------------|
| (1) | GSM1800- RX | (7) | GSM850/900-Tx |
| (2) | VC3 | (8) | GND |
| (3) | GSM850/900- RX | (9) | ANT |
| (4) | VC1 | (10) | VC2 |
| (5) | GSM1800/1900-Tx | (11) | GSM1900- RX |
| (6) | GND | (12) | GND |

SWITCH LOGIC TABLE

| Mode | VC1 | VC2 | VC3 | Current |
|-----------------|----------|----------|----------|-----------|
| GSM850/900-Tx | 2.4~2.8V | 0~0.1V | 0~0.1V | 10mA Max. |
| GSM850/900-Rx | 0~0.1V | 0~0.1V | 0~0.1V | ≈0mA |
| GSM1800/1900-Tx | 0~0.1V | 2.4~2.8V | 2.4~2.8V | 10mA Max. |
| GSM1800-Rx | 0~0.1V | 0~0.1V | 0~0.1V | ≈0mA |
| GSM1900-Rx | 0~0.1V | 0~0.1V | 2.4~2.8V | 3mA Max. |

LAND PATTERN



SPECIFICATIONS

| GSM850/900 (MHz) Band | | | |
|-----------------------|--------------------------|----------------------------------|---------------------------------|
| Tx Mode | Frequency Range (MHz) | Fat1 | 836.50±12.50 |
| | | Fgt1 | 897.50±17.50 |
| | Insertion Loss (dB) | Tx-ANT | 1.55 Max. |
| | Ripple (dB) | Tx-ANT | 0.50 Max. |
| | Attenuation (dB) | Tx-ANT | 30.0 Min. at 2×Fgt1, 2×Fat1 MHz |
| | | Tx-ANT | 30.0 Min. at 3×Fgt1, 3×Fat1 MHz |
| | VSWR | Tx, ANT | 2.00 Max. |
| | Isolation (dB) | Tx-GSM850/900Rx | 20.0 Min. |
| | | Tx-GSM1800/1900Rx | 20.0 Min. |
| | Current Consumption (mA) | | 10.0 Max. |
| Harmonics (dBc) | Tx-ANT | -70.0 Max. at 2×Fgt1, 2×Fat1 MHz | |
| | Tx-ANT | -70.0 Max. at 3×Fgt1, 3×Fat1 MHz | |
| Power Capacity (dBm) | | 35.0 Max. | |
| Rx Mode | Frequency Range (MHz) | Far1 | 881.50±12.50 |
| | | Fgr1 | 942.50±17.50 |
| | Insertion Loss (dB) | ANT-Rx | 1.25 Max. |
| | Ripple (dB) | ANT-Rx | 0.50 Max. |
| | VSWR | ANT, Rx | 2.00 Max. |
| Isolation (dB) | Tx-Ant | 20.0 Min. | |

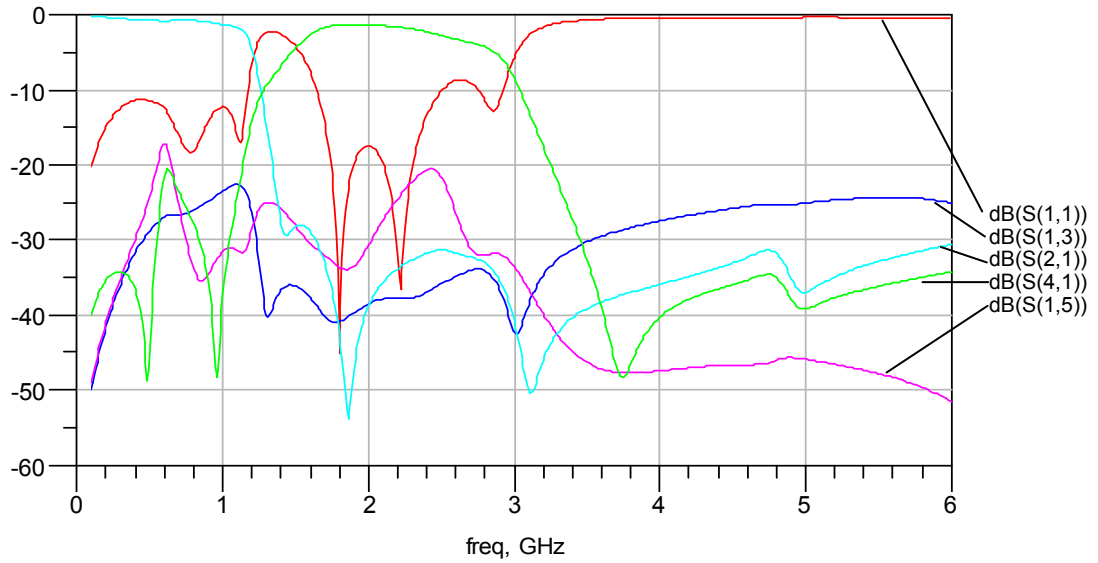
SPECIFICATIONS

| GSM1800/1900 (MHz) Band | | | | |
|-------------------------|--------------------------|---------------------|----------------------------------|----------------------------------|
| Tx Mode | Frequency Range (MHz) | Fdth | 1747.50±37.50 | |
| | | Fpth | 1880.00±30.00 | |
| | Insertion Loss (dB) | Tx-ANT | 1.65 Max. | |
| | Ripple (dB) | Tx-ANT | 0.50 Max. | |
| | Attenuation (dB) | Tx-ANT | 30.0 Min. at 2×Fdth, 2×Fpth MHz | |
| | | Tx-ANT | 30.0 Min. at 3×Fdth, 3×Fpth MHz | |
| | VSWR | Tx, ANT | 2.00 Max. | |
| | Isolation (dB) | Tx-GSM850/900Rx | 20.0 Min. | |
| | | Tx-GSM1800Rx (Fpth) | 35.0 Min. | |
| | | Tx-GSM1800Rx (Fdth) | 20.0 Min. | |
| | | Tx-GSM1800/1900Rx | 20.0 Min. | |
| | Current Consumption (mA) | | | 10.0 Max. |
| | Harmonics (dBc) | Tx-ANT | | -67.0 Max. at 2×Fdth, 2×Fpth MHz |
| Tx-ANT | | | -67.0 Max. at 3×Fdth, 3×Fpth MHz | |
| Power Capacity (dBm) | | | 33.0 Max. | |
| 1800 Rx Mode | Frequency Range (MHz) | Fdrh | 1842.50±37.50 | |
| | Insertion Loss (dB) | ANT-Rx | 1.65 Max. | |
| | Ripple (dB) | Rx-ANT | 0.50 Max. | |
| | VSWR | ANT, Rx | 2.00 Max. | |
| | Isolation (dB) | Tx-Ant (Fdth) | 20.0 Min. | |
| 1900 Rx Mode | Frequency Range (MHz) | Fprh | 1960.00±30.00 | |
| | Insertion Loss (dB) | ANT-Rx | 1.65 Max. | |
| | Ripple (dB) | Rx-ANT | 0.50 Max. | |
| | VSWR | ANT, Rx | 2.00 Max. | |
| | Isolation (dB) | Tx-Ant (Fpth) | 20.0 Min. | |
| | Current Consumption (mA) | | | 3.0 Max |

DETAIL ELECTRICAL CHARACTERISTICS

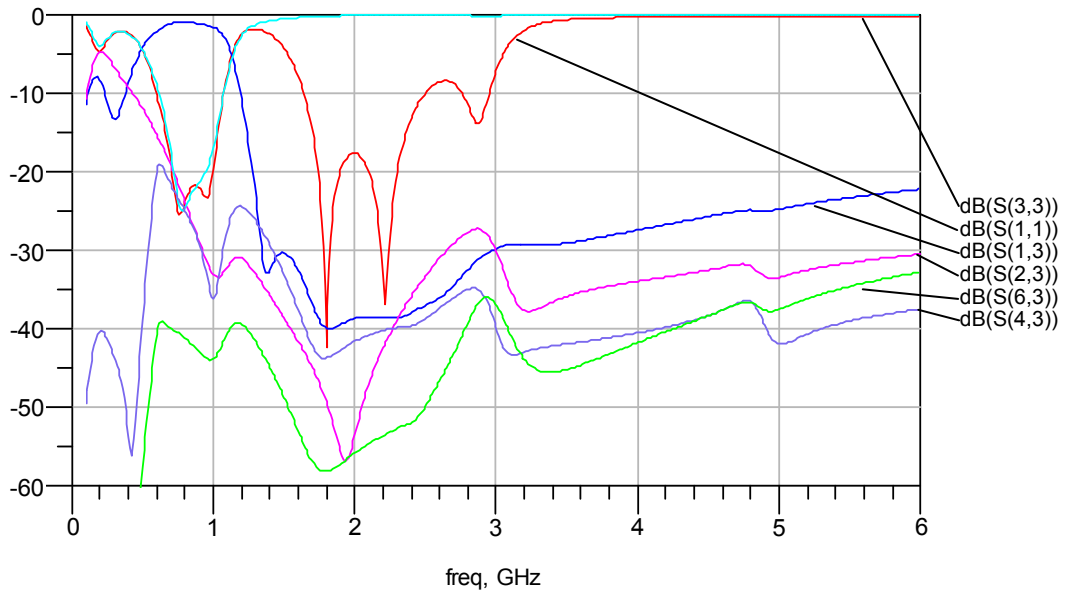
1. GSM850/900 Band and GSM1800/1900 Band, RX_Mode

(port1:Ant, port2:GSM850/900 Rx, port3: GSM850/900 Tx, port4:GSM1800 Rx, port5:GSM1800/1900 Tx, port6: GSM1900 Rx)



2. GSM850/900 Band, Tx_Mode

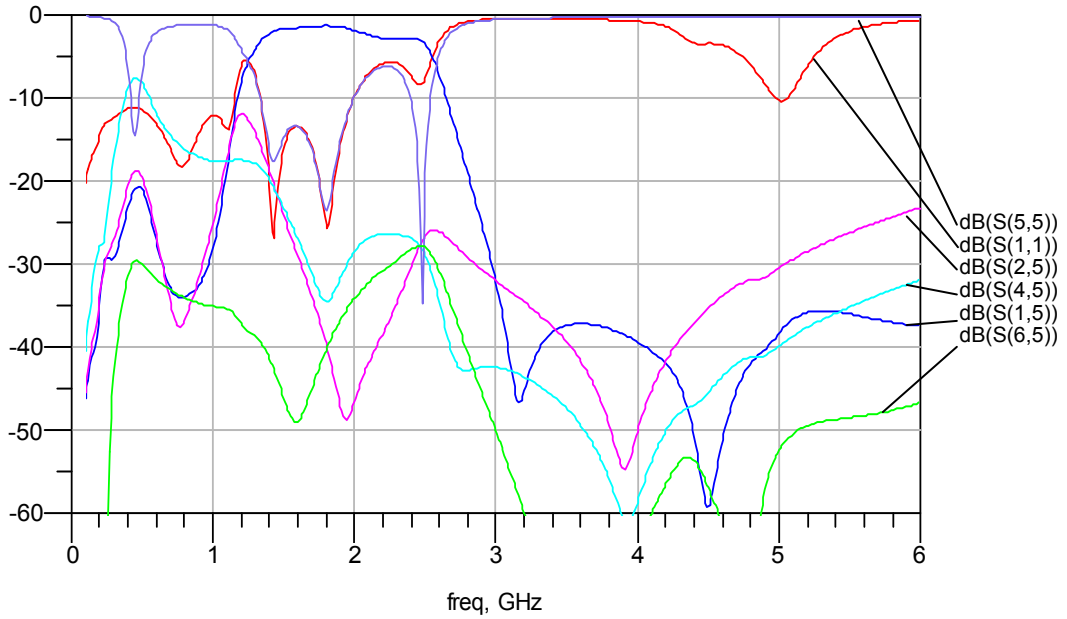
(port1:Ant, port2:GSM850/900 Rx, port3: GSM850/900 Tx, port4:GSM1800 Rx, port5:GSM1800/1900 Tx, port6: GSM1900 Rx)



DETAIL ELECTRICAL CHARACTERISTICS

3. GSM1800/1900 Band, Tx_Mode

(port1:Ant, port2:GSM850/900 Rx, port3: GSM850/900 Tx, port4:GSM1800 Rx, port5:GSM1800/1900 Tx, port6: GSM1900 Rx)



4. GSM1900 Band, Rx_Mode

(port1:Ant, port2:GSM850/900 Rx, port3: GSM850/900 Tx, port4:GSM1800 Rx, port5:GSM1800/1900 Tx, port6: GSM1900 Rx)

