

# Wire Wound Type Balun

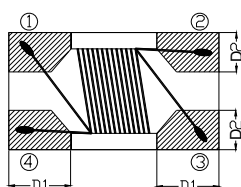
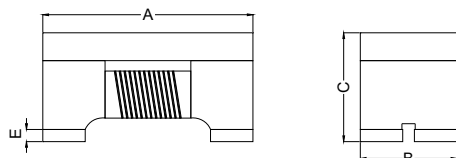
BCM2012F2SV-SERIES

## 1. Features

1. Low insertion loss at frequency range.
2. BCM2012F2SV series realizes small size and low profile. 2.0x1.2x1.2 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. High reliability -Reliability tests comply with AEC-Q200
5. Operating temperature-55~+125°C (Including self - temperature rise)



## 2. Dimension



| Series   | A(mm)   | B(mm)   | C(mm)   | D1(mm)   | D2(mm)   | E(mm)    |
|----------|---------|---------|---------|----------|----------|----------|
| 2012F2SV | 2.0±0.2 | 1.2±0.2 | 1.2±0.2 | 0.50±0.1 | 0.51±0.1 | 0.15±0.1 |

## 3. Part Numbering

|     |      |   |   |   |   |   |     |    |   |     |
|-----|------|---|---|---|---|---|-----|----|---|-----|
| BCM | 2012 | F | 2 | S | V | - | 750 | 11 | - | 122 |
| A   | B    | C | D | E | F |   | G   | H  |   | I   |

- A: Series  
 B: Dimension  
 C: Material Ferrite Core  
 D: Number of Lines 2=2 lines  
 E: Type S=Shielded , N=Unshielded  
 F: Category Code V=Vehicle  
 G: Impedance Match 750= 75 ohm  
 H: Turns Rate 11=1 : 1  
 I: Control S/N Internal code

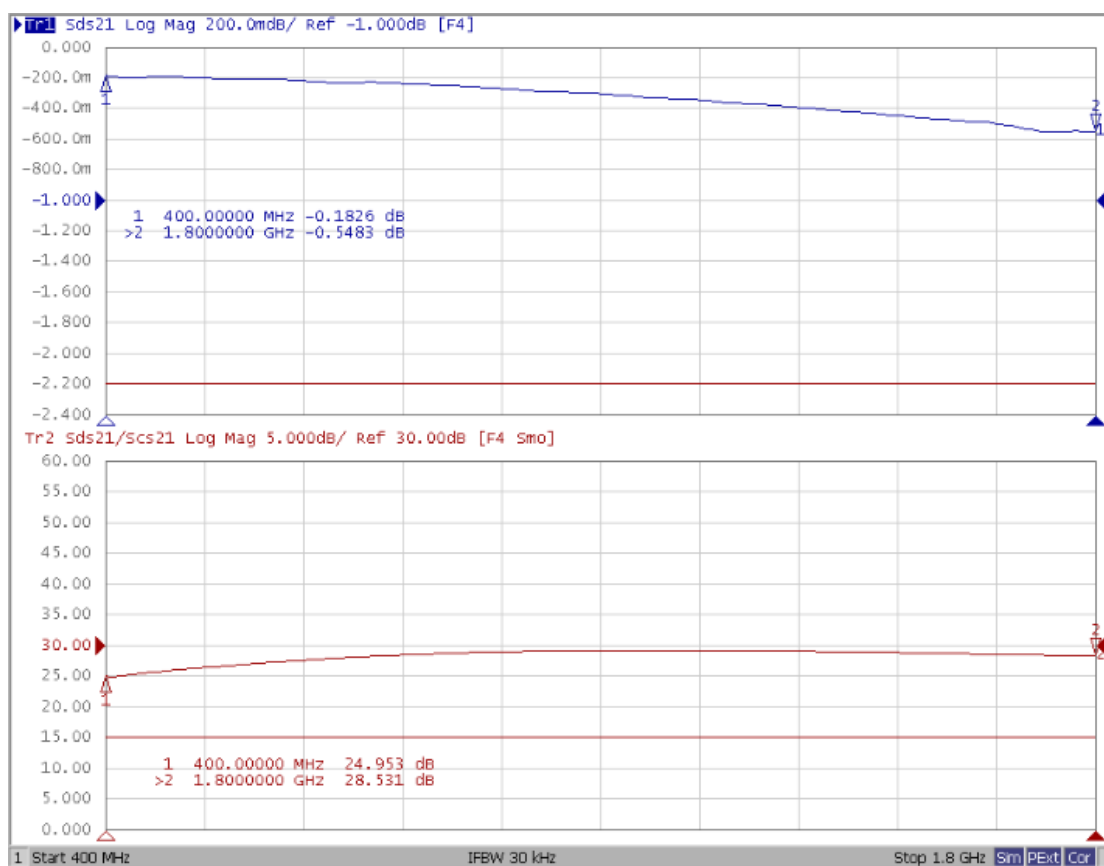
## 4. Specification

| TAI-TECH Part Number  | UB/B Impedance (Ω) | Test Frequency (MHz) | DC Resistance (Ω) max. | Rated Power (dBm) max. | Rated Volt. (DCV) max. | Withstand Volt. (DCV) max. | IR (MΩ) min. | Insertion Loss (dB)max | CMRR (dB) |
|-----------------------|--------------------|----------------------|------------------------|------------------------|------------------------|----------------------------|--------------|------------------------|-----------|
| BCM2012F2SV-50011-TE2 | 50/50              | 400~1800             | 0.50                   | 27                     | 20                     | 125                        | 10           | 2.2                    | 15(typ.)  |
| BCM2012F2SV-50011-T02 | 50/50              | 40~ 860              | 1.00                   | 27                     | 20                     | 125                        | 10           | 2.5                    | 20(typ.)  |
| BCM2012F2SV-50011-MN2 | 50/50              | 100~1000             | 0.35                   | 27                     | 20                     | 50                         | 10           | 1.0                    | 10(min.)  |
| BCM2012F2SV-50011-ST2 | 50/50              | 45~870               | 1.00                   | 27                     | 20                     | 50                         | 10           | 1.2                    | 20(min.)  |
| BCM2012F2SV-75011-TE2 | 75/75              | 400~1800             | 0.50                   | 27                     | 20                     | 125                        | 10           | 2.0                    | 15(typ.)  |
| BCM2012F2SV-75011-T02 | 75/75              | 50~1200              | 0.70                   | 27                     | 20                     | 125                        | 10           | 1.2                    | 20(typ.)  |
| BCM2012F2SV-75011-MS2 | 75/75              | 1000~1500            | 0.59                   | 27                     | 20                     | 50                         | 10           | 1.4                    | 20(min.)  |

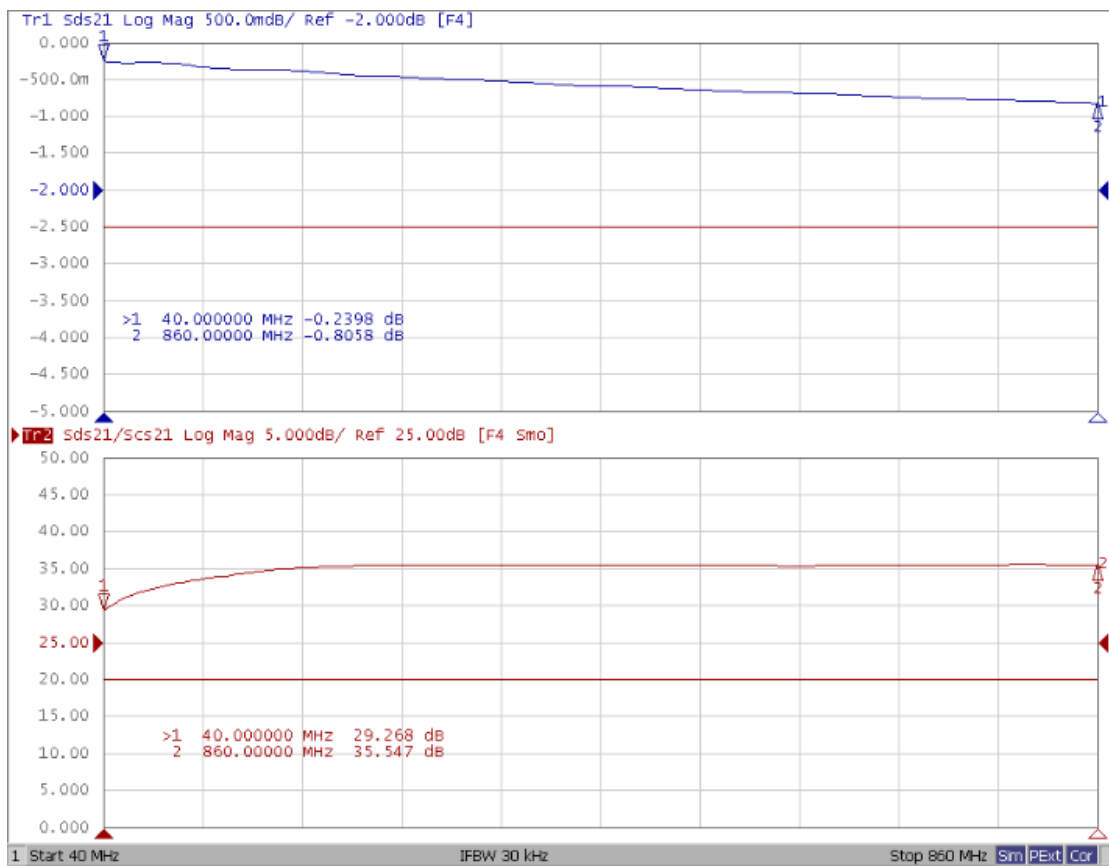
| TAI-TECH Part Number  | UB/B Impedance ( $\Omega$ ) | Test Frequency (MHz) | DC Resistance ( $\Omega$ ) max. | Rated Power (dBm) max. | Rated Volt. (DCV) max. | Withstand Volt. (DCV) max. | IR (M $\Omega$ ) min. | Insertion Loss (dB)max            | CMRR (dB) |
|-----------------------|-----------------------------|----------------------|---------------------------------|------------------------|------------------------|----------------------------|-----------------------|-----------------------------------|-----------|
| BCM2012F2SV-75011-MT2 | 75/75                       | 50~1200              | 0.77                            | 27                     | 20                     | 50                         | 10                    | 50~870MHz:1.0<br>870~1200MHz:1.2. | 20(min.)  |
| BCM2012F2SV-75011-SA2 | 75/75                       | 45~870               | 0.88                            | 27                     | 20                     | 50                         | 10                    | 1.0                               | 20(min.)  |
| BCM2012F2SV-75011-SB2 | 75/75                       | 50~1200              | 0.70                            | 27                     | 20                     | 50                         | 10                    | 1.2                               | 20(min.)  |
| BCM2012F2SV-75011-122 | 75/75                       | 1000~1500            | 0.59                            | 27                     | 20                     | 50                         | 10                    | 1.4                               | 20(min.)  |

## Insertion Loss & CMRR

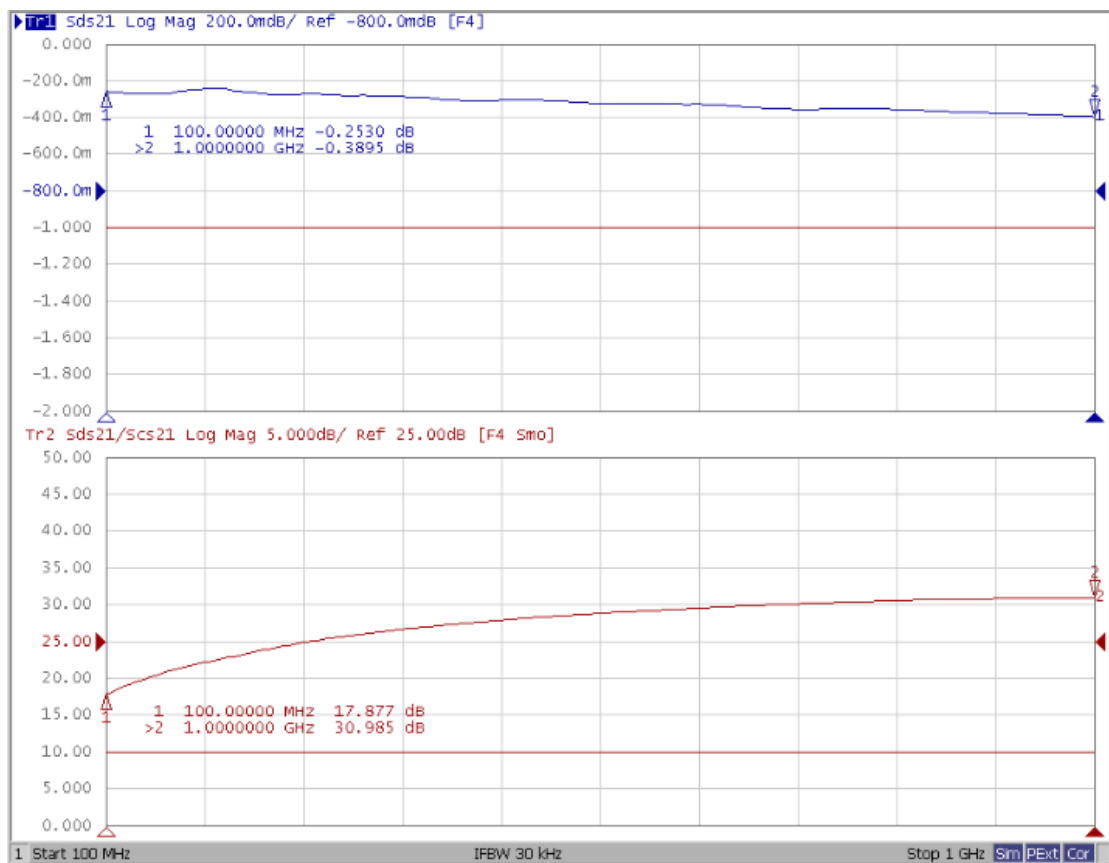
BCM2012F2SV-50011-TE2



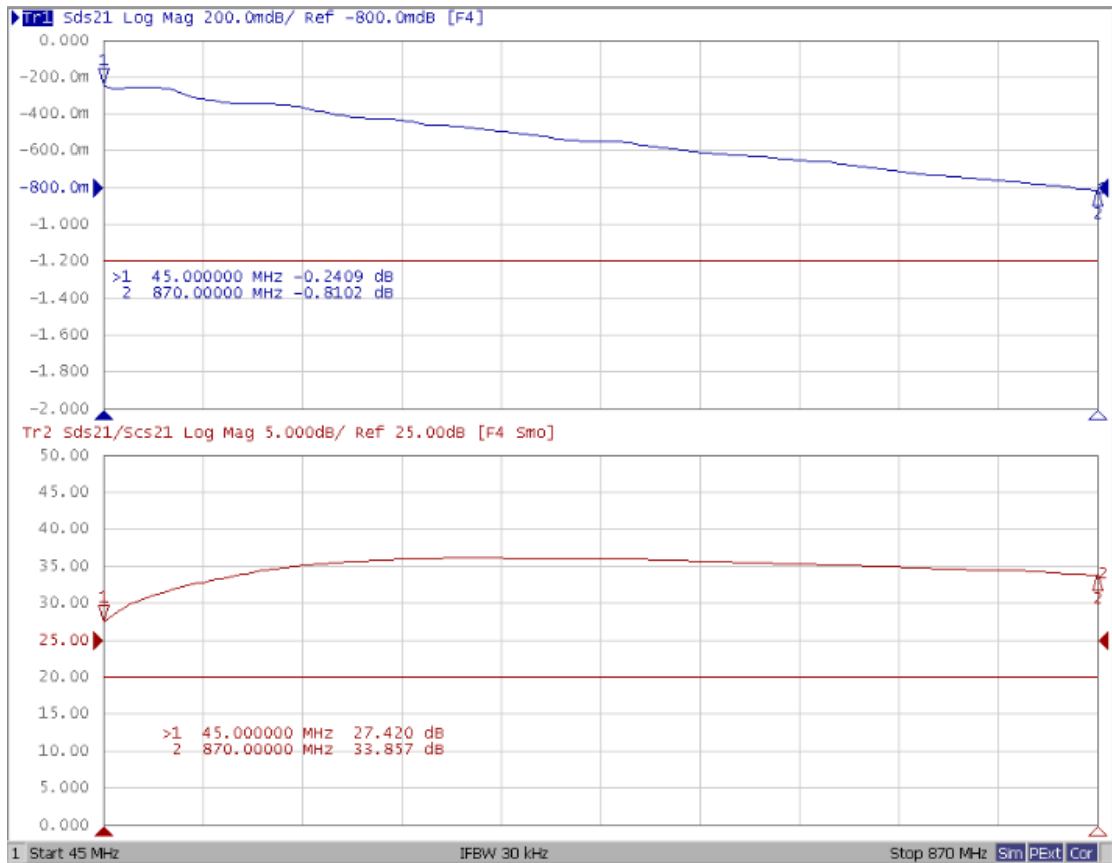
### BCM2012F2SV-50011-T02



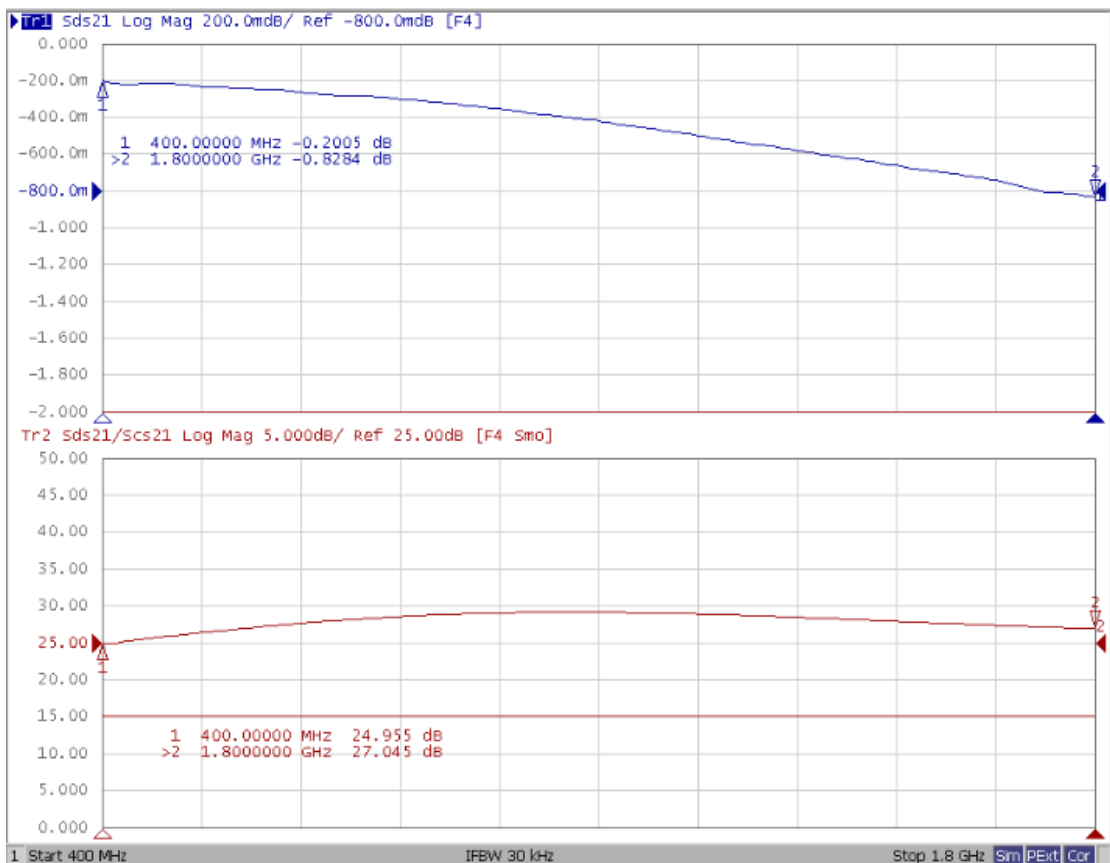
### BCM2012F2SV-50011-MN2



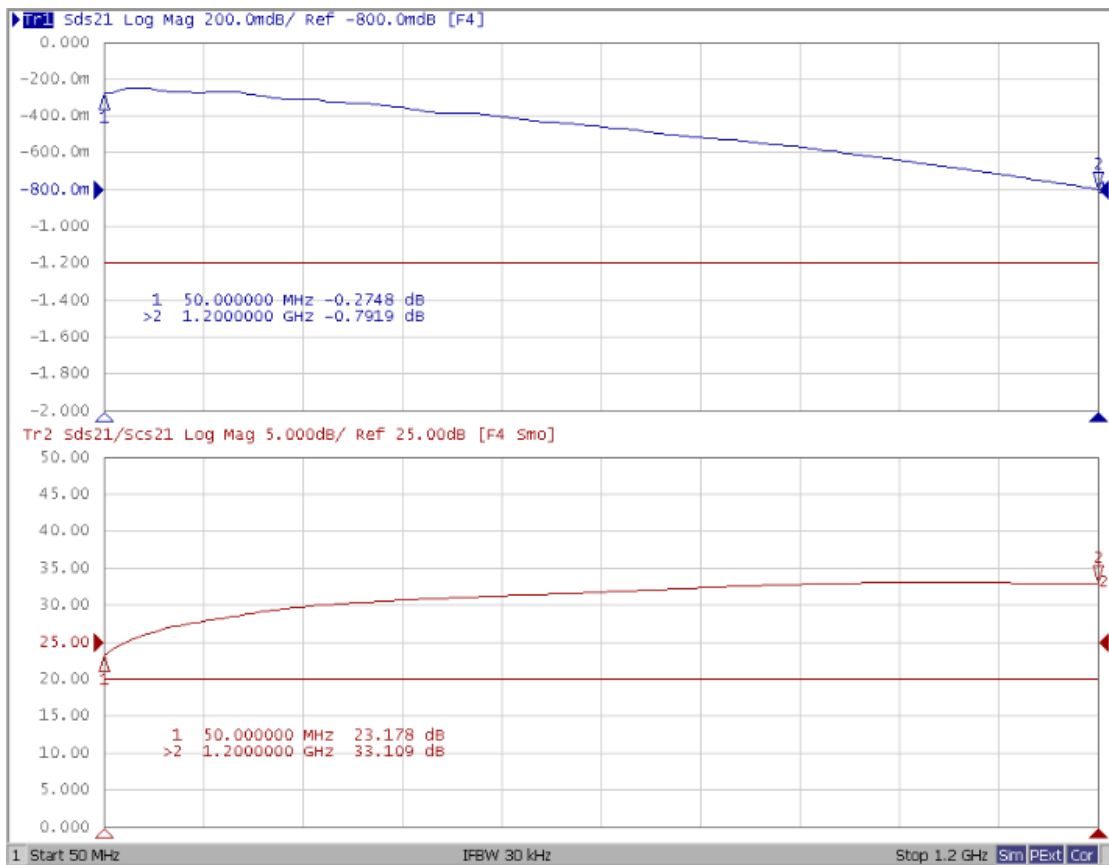
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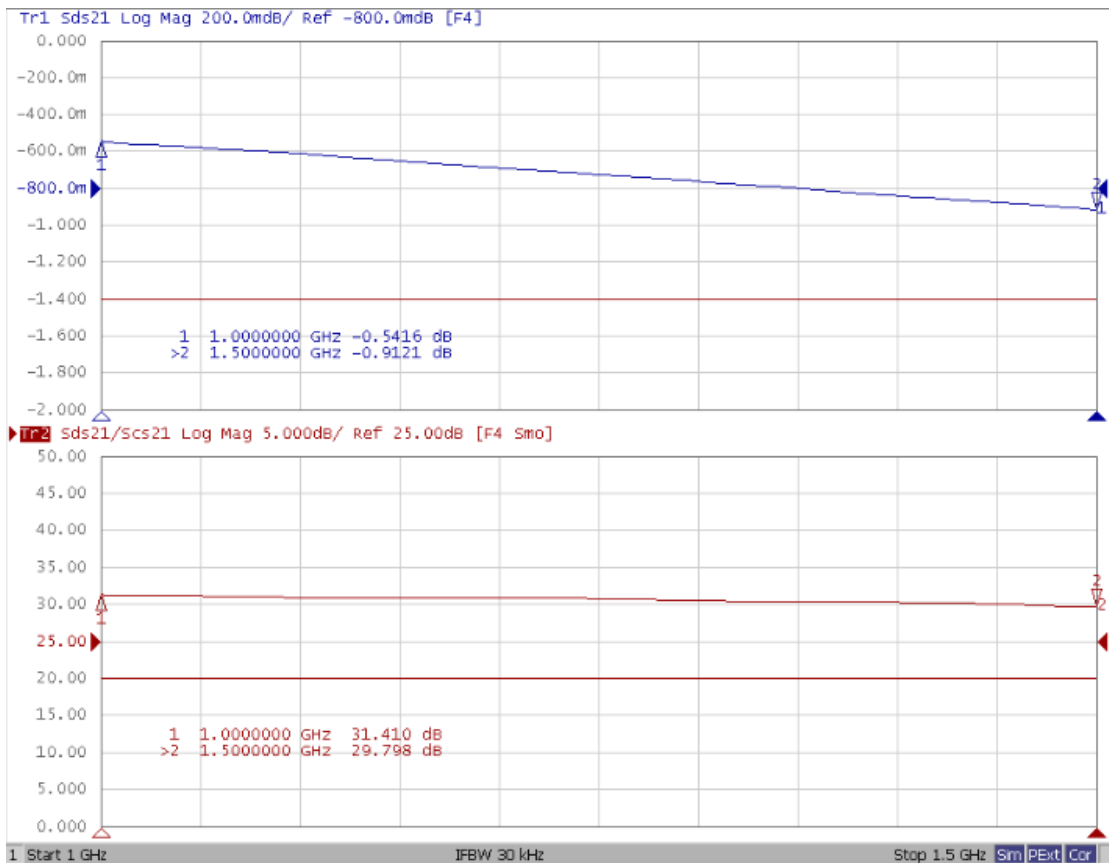
### BCM2012F2SV-75011-TE2



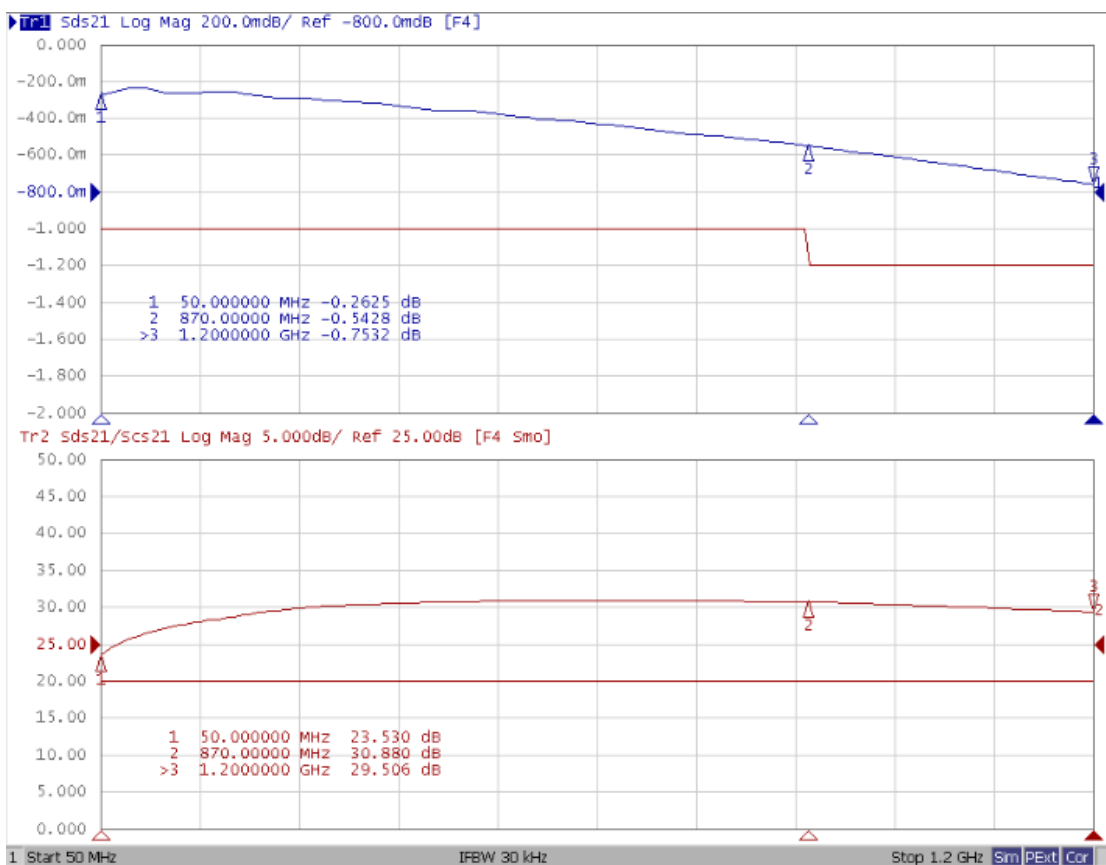
BCM2012F2SV-75011-T02



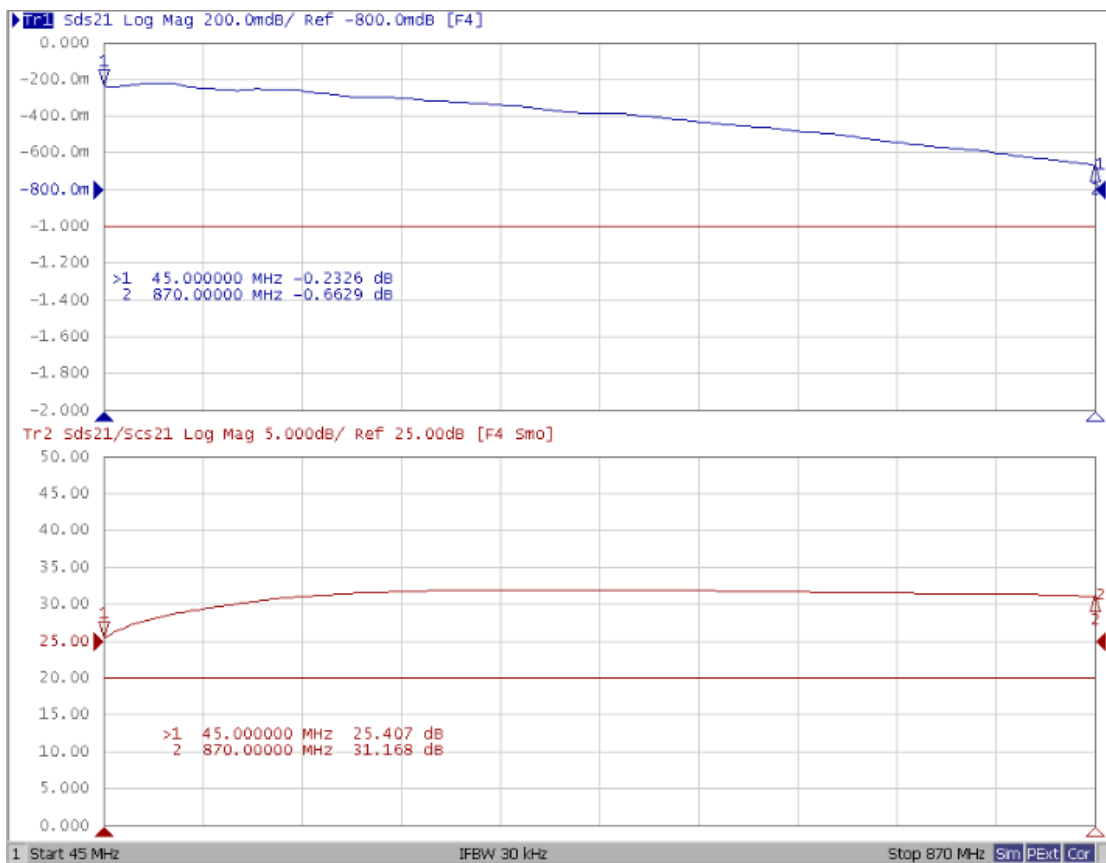
BCM2012F2SV-75011-MS2



### BCM2012F2SV-75011-MT2



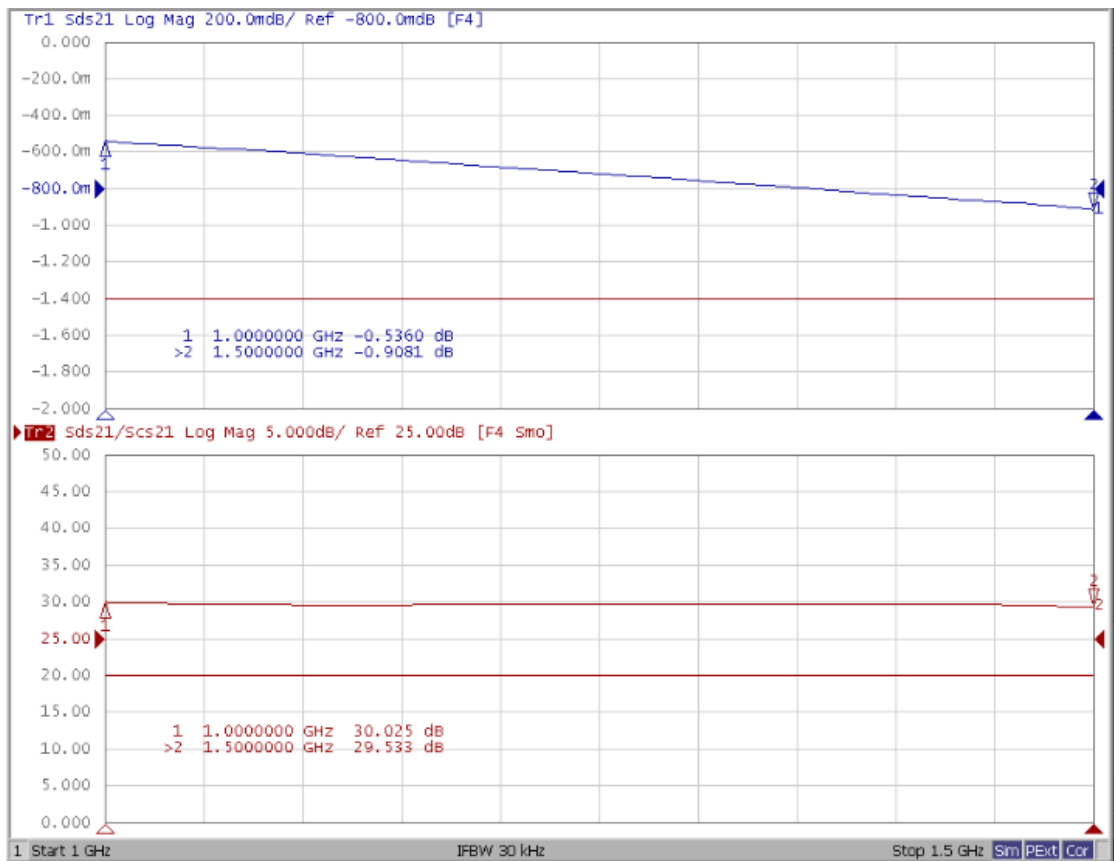
### BCM2012F2SV-75011-SA2



### BCM2012F2SV-75011-SB2



### BCM2012F2SV-75011-122



## 5. Schematic Diagram

