## **Bias Tee**

Frequency: DC ~ 4.2 Ghz

### P/N: IBT..... Series







Operating Temp : -10°C ~ 50°C

| Ordering<br>Code | RF Power<br>(W) | Frequency<br>Range(GHz) | VSWR  | Insertion<br>Loss(dB) | Interface           | Figure |
|------------------|-----------------|-------------------------|-------|-----------------------|---------------------|--------|
| IBT-3-S          |                 | 0.01-3                  | ≤1.20 | ≪1.0                  |                     | 1      |
| IBT-4.2-S        | ⊲5              | 0.01-4.2                | ≤1.25 | ≤1.25                 | DC IN SMA(K)        |        |
| IBT-3-SC         |                 | 0.01-3                  | ≤1.20 | ≪1.0                  | RF IN SMA(J)        | 2      |
| IBT-4.2-SC       |                 | 0.01-4.2                | ≤1.25 | ≤1.25                 | DC IN (Capacitance) | 2      |
| IBT-3-N          |                 | 0.01-3                  | ≤1.20 | ≤1.0                  |                     | 2      |
| IBT-4.2-N        | ∽5              | 0.01-4.2                | ≤1.25 | ≤1.25                 | DC IN N(K)          | 5      |
| IBT-3-NC         | ~3              | 0.01-3                  | ≤1.20 | ≪1.0                  |                     | 4      |
| IBT-4.2-NC       |                 | 0.01-4.2                | ≤1.25 | ≤1.25                 | DC IN (Capacitance) | 4      |













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| DC Blocks              |                             |                           |
|------------------------|-----------------------------|---------------------------|
| Frequency: DC ~ 40 GHz | P/N: DCB Series             |                           |
|                        | Impedance<br>Operating Temp | : 50 Ω<br>: -55°C ~ 100°C |

| Ordering<br>Code | Frequency<br>Range (GHz)          | Insertion<br>Loss(dB)            | VSWR                             | DC Voltage<br>(V) | Connector           | Weight<br>(g) | Fig |
|------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------|---------------------|---------------|-----|
| DCB-SMA-<br>100  | 0.13-8<br>8-18<br>18-26.5         | ₽.2<br>₽.5<br>₽.6                | <1.20<br><1.35<br><1.50          | 100               | SMA(M)-<br>SMA(F)   | 10            | 1   |
| DCB-2.92         | 0.1-18<br>18-32<br>32-40          | ≪9.5<br>≪9.75<br>≪1.25           | <1.30<br><1.40<br><1.45          | 50                | 2.92(M)-<br>2.92(F) | 15            | 2   |
| DCB-N            | 0.1-4<br>4-8<br>8-12.4<br>12.4-18 | \$9.2<br>\$9.3<br>\$9.5<br>\$9.8 | <1.20<br><1.30<br><1.40<br><1.45 | 250               | N(M)-N(F)           | 65            | 3   |





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| File View Cha            | nnel Swee        | p Calibration 1<br>Stop 18. | 'race Scalı<br>000000000 | e Marker<br>GHz 🕂 | System<br>Start | Window | Help<br>Stop          | Cento                | er                               | Span   |
|--------------------------|------------------|-----------------------------|--------------------------|-------------------|-----------------|--------|-----------------------|----------------------|----------------------------------|--|
|                          |                  |                             |                          |                   | Jun             |        |                       | Cont                 |                                  |  |
| 811<br>0.2001/           | 50.00 de         | 3 521                       |                          |                   |                 |        | 1:                    | 30.00000             | u MHz<br><del>IO GHz</del>       | 1.1708                                       |
| -400mU SWR               | 40.00            |                             |                          |                   |                 |        | 3:                    | 8.0000               |                                  | 1.0089                                       |
| S21                      | 30.00 🖡          |                             | 2                        |                   |                 |        | 4:<br>5 <del>.2</del> | 18.0000              | io GHz                           | 1.0320                                       |
| -40.0dB/<br>-40.0dB LogM | 20.00            |                             | -                        |                   | 3               |        | 1. <sup>4</sup>       | 30.0000              | 0 MHz<br>I0 GHz                  | 0.09366 dB                                   |
|                          | 10.00            |                             |                          |                   |                 |        | 3.                    | 8.00000              | 0 GHz                            | 0.11245 UB                                   |
|                          | 0.00             |                             | <u>~</u>                 |                   | <u> </u>        |        | 4:                    | 12.40000             | 10 <u>GHz</u><br>10 GHz          | 0.02580 dB                                   |
|                          | -10.00           |                             | 2                        |                   | 3               |        | 4                     |                      |                                  |  |
|                          | 20.00            |                             |                          |                   |                 |        |                       |                      |                                  | +  |
| 512                      | Ch1: Sta         | rt 10.0000 MHz -            |                          |                   |                 |        | 1:                    | 30.0000              | Stop<br>0 MHz                    | 18.0000 GHz                                  |
| 10.00dB/                 | 2.20             |                             |                          |                   |                 |        | 2:                    | 4.00000              | <del>10 GHz</del><br>10 GHz      | 0.11537 dB                                   |
|                          | 2.00             |                             | 2                        |                   | 3               |        | 4 <u>4</u>            | 12.40000             | 0 GHz                            | 0.18361 dB                                   |
| 0.2000/                  | 1.80             |                             |                          |                   |                 |        | 5:<br>1:              | 18.00000<br>30.00000 | <del>o dHz</del><br>0 <u>MHz</u> | 0.75794d8<br>1.1717                          |
| 400mU SWR                | 1 40             |                             |                          |                   |                 |        | 2:                    | 4.0000               | 0 GHz                            | 1.0672                                       |
|                          | 1.20             |                             |                          |                   |                 |        | 3:<br>4:              | 12.40000             | io GHz                           | 1.02173                                      |
|                          | 1.00             |                             | -25                      |                   |                 |        | <u>&gt;5-</u>         | 18 00090             | 0,GHz                            | 1.3273                                       |
|                          | 0.80             |                             | 4                        |                   | 3               |        | 4                     |                      |                                  | <u>                                     </u> |
|                          | 0.60             |                             |                          |                   |                 |        |                       |                      |                                  | ┼───┤│                                       |
|                          | 0.40<br>Ch1: Sta | rt 10.0000 MHz -            |                          |                   |                 |        |                       |                      | Stop                             | 18.0000 GHz                                  |
| Status CH                | 1: \$21          | C                           | 2-Port                   |                   |                 |        |                       |                      |                                  | LCL  |
| STELLIO OT               |                  | 0                           |                          |                   |                 |        |                       |                      |                                  |  |

## **DC Blocks**

Frequency: **DC ~ 6 Ghz** 

#### P/N: DCB...-BL Series



| Impedance      | : | 50 Ω          |
|----------------|---|---------------|
| Operating Temp | : | -55°C ~ 100°C |

| Ordering<br>Code | Frequency<br>Range<br>(GHz) | Insertion<br>Loss(dB) | VSWR  | DC<br>Voltage<br>(V) | Connector<br>Type   | Weight<br>(g) | Fig |
|------------------|-----------------------------|-----------------------|-------|----------------------|---------------------|---------------|-----|
|                  | 0.01-2                      | ≪0.2                  | <1.20 |                      |                     |               |     |
| DCB-SMA-BL       | 2-4                         | ≪0.3                  | <1.30 | 72                   | SMA(IVI)-<br>SMA(F) | 25            | 1   |
|                  | 4-6                         | ≪0.5                  | <1.40 |                      |                     |               |     |
|                  | 0.01-2                      | ≪0.2                  | <1.20 |                      |                     |               |     |
| DCB-N-BL         | 2-4                         | ≪0.3                  | <1.30 | 72                   | N(M)-N(F)           | 65            | 2   |
|                  | 4-6                         | ≪0.5                  | <1.40 |                      |                     |               |     |



## Impedence Converters

Frequency: DC ~ 3 Ghz

P/N: IMC..... Series



| Impedance      | : | 50 Ω         |
|----------------|---|--------------|
| Operating Temp | : | -10°C ~ 50°C |

| Ordering Code | Frequency<br>Range(GHz) | Insertion<br>Loss(dB) | VSWR | Power<br>(W) | Figure | Typical<br>Flatness(dB) | Connector<br>Type |
|---------------|-------------------------|-----------------------|------|--------------|--------|-------------------------|-------------------|
| IMC-2-N       | DC-1.3                  | 5.7                   | 1.06 | 2            | 1      | < 0.10                  |                   |
| IMC5-N        | DC-1.3                  | 5.7                   | 1.06 | 5            | 1      | < 0.10                  |                   |
| IMC50-N       | DC-1.3                  | 5.7                   | 1.20 | 50           | 2      | < 0.10                  | N(M)-N(F)         |
| IMC2-N        | DC-3                    | 5.7                   | 1.15 | 2            | 1      | < 0.15                  |                   |
| IMC5-N        | DC-3                    | 5.7                   | 1.15 | 5            | 1      | < 0.15                  |                   |
| IMC50-N       | DC-3                    | 5.7                   | 1.25 | 50           | 2      | < 0.15                  |                   |
| IMC-2-BNC     | DC-1.3                  | 5.7                   | 1.06 | 2            | 1      | < 0.10                  |                   |
| IMC5-BNC      | DC-1.3                  | 5.7                   | 1.06 | 5            | 1      | < 0.10                  |                   |
| IMC50-BNC     | DC-1.3                  | 5.7                   | 1.20 | 50           | 2      | < 0.10                  | BNC(M)-           |
| IMC2-BNC      | DC-3                    | 5.7                   | 1.15 | 2            | 1      | < 0.15                  | BNC(F)            |
| IMC5-BNC      | DC-3                    | 5.7                   | 1.15 | 5            | 1      | < 0.15                  |                   |
| IMC50-BNC     | DC-3                    | 5.7                   | 1.25 | 50           | 2      | < 0.15                  |                   |



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| Power Dividers - 2-way |                       |  |
|------------------------|-----------------------|--|
| Frequency: DC ~ 18 Ghz | <i>P/N:</i> <b>IP</b> | D18 Series   |
|                        |                       | Impedance : 50 Ω<br>Operating Temp : -55°C ~ 100°C |

| Ordering Code     | Average<br>Power<br>(W) | Frequency<br>Range<br>(GHz) | Max<br>VSWR          | lns. Loss<br>(dB)         | Max<br>Amplitude<br>Balance<br>(between J2 &<br>J3) dB | Connector<br>Type | Fig. |
|-------------------|-------------------------|-----------------------------|----------------------|---------------------------|--|-------------------|------|
| IPD-GF2-2-18-FFF  | 1                       | DC-4<br>4-10<br>10-18       | ⊴.25<br>⊴.25<br>⊴.35 | 5.8-6<br>5.6-6<br>5.8-7.2 | 0.2<br>0.4<br>0.4                                      | SMA (F,F,F)       | 1    |
| IPD-GF2-2-18-MFF  | 1                       | DC-4<br>4-10<br>10-18       | ⊴.25<br>⊴.25<br>⊴.35 | 5.8-6<br>5.6-6<br>5.8-7.2 | 0.2<br>0.4<br>0.4                                      | SMA (M,F,F)       | 1    |
| IPD-GF2-2-18N-MFF | 1                       | DC-4<br>4-10<br>10-18       | ⊴.25<br>⊴.25<br>⊴.35 | 5.8-6<br>5.6-6<br>5.8-7.5 | 0.2<br>0.4<br>0.4                                      | N(M,F,F)          | 2    |





0

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Fig 1



Fig 2

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| Start         Start <th< th=""><th>File View</th><th>Channe</th><th>I Sweep</th><th>Calibra</th><th>tion Tr</th><th>ace Sc</th><th>ale</th><th>Marke</th><th>r System</th><th>Window</th><th>w Help</th><th>, <b>,</b> , .</th><th></th><th>-,</th></th<>   | File View       | Channe   | I Sweep         | Calibra      | tion Tr   | ace Sc   | ale | Marke | r System | Window | w Help          | , <b>,</b> , .      |                           | -,                       |
|---|-----------------|----------|-----------------|--------------|-----------|----------|-----|-------|----------|--------|-----------------|---------------------|---------------------------|--------------------------|
| 11         10.000         MB S21         1         10.0000         MHz         1.0033           1.200U/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/ | Stimulus        |          |                 | Sta          | rt   10.0 |          | HZ  |       | Start    |        | Stop            | Ler                 | iter                      | Span                     |
| 10.000         SWR         -10.00         2         3         4         4         12.40000 GHz         -1.661           0.00dB/<br>.00dB         -0.00         -1         10.000 GHz         -1.661         -1.661           0.00dB/<br>.00dB         -0.00         -1         10.0000 GHz         -1.661         -1.661           0.00dB/<br>.00dB         -0.00         -1         10.0000 MHz         -6.022 dB         -6.024 dB           0.00dB/<br>.00dB         -0.00         -0.00         -0.00         -0.00         -0.00         -0.00         -6.024 dB         -6.024 dB           0.00dB/<br>.00dB         -0.00  | S11<br>0.2001// | 10       | .00 <b>db s</b> | 21           |           |          |     |       |          |        | 1:              | 10.00000            | 0 MHz<br>10 GHz           | 1.0093                   |
| 221       3       4: 4       12.40000 GHz       1.1865         0.00dB/<br>0.00dB       4: 0.00       5: 18.00000 GHz       5.82914       1.865         0.00dB       4: 12.40000 GHz       5.82914       4: 12.40000 GHz       5.82914         0.00dB       50:00       4: 12.40000 GHz       5.82914       4: 12.40000 GHz       5.82914         0.00       50:00       5: 18.00000 GHz       5.94754       6: 3950 dB       5: 18.00000 GHz       5: 39474         0.00       50:00       5:00       5: 18.00000 GHz       5: 394744       5: 394744       5: 394744         0.00dB       2: 4: 4: 4: 12.40000 GHz       5: 382914       1: 10.00000 MHz       5: 382914       5: 382914         0.00dB       3:00       2: 4: 4: 5: 382744       3: 4: 4: 12.40000 GHz       5: 382944         0.00dB       2: 4: 5: 38294       1: 10.00000 MHz       5: 382944       5: 382944         0.00dB       2: 4: 5: 382944       3: 4: 4: 12.40000 GHz       5: 382944       5: 382944         0.00dB       2: 4: 5: 382944       1: 10.00000 MHz       5: 382944       1: 10034         0.00dB       2: 4: 00000 GHz       5: 18: 00000 GHz       5: 38244       1: 10034         0.00dB       2: 4: 00000 GHz       5: 18: 00000 GHz <td< td=""><td>1.000</td><td>SWR L10</td><td></td><td></td><td></td><td><u>A</u></td><td></td><td></td><td></td><td></td><td>3: 4</td><td>8.00000</td><td>D GHz</td><td>1.1661</td></td<>   | 1.000           | SWR L10  |                 |              |           | <u>A</u> |     |       |          |        | 3: 4            | 8.00000             | D GHz                     | 1.1661                   |
| 0.00dB/<br>0.00dB LogM<br>30.00<br>40.00<br>50.00<br>60.00<br>70.00<br>80.00<br>30.00<br>40.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>5      | S21             | 20       | .00             |              |           | 2        |     |       | 3        |        | 4:4             | 12.40000            | D GHz                     | 1.1663                   |
| 10000       10000       11:       10.00000       11:       10.00000       11: <td< td=""><td>10.00dB/</td><td>LooM 30</td><td>.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1:</td><td>10.00000</td><td>0 MHz</td><td>-6.0202 dB</td></td<>   | 10.00dB/        | LooM 30  | .00             |              |           |          |     |       |          |        | 1:              | 10.00000            | 0 MHz                     | -6.0202 dB               |
| 50.00         4:         12.40000 GHz         6.1271 dB           60.00         >5:         18.0000 GHz         6.3950 dB           70.00         80.00         3:         4:         5:           90.00         Ch1: Start 10.0000 MHz         3:         4:         5:           10.00         10:         1:         10.0000 MHz         5:         5:           10.00         10:         1:         10.0000 MHz         5:         5:         5:           10:00         2:         3:         4:         4:         5:         5:         5:           10:00         2:         3:         4:         4:         1::         1::         1::         1::         1::         5::         5::         5::         5::         5::         5::         5::         5::         5::         5::         5::         5::         1::         1::         1::         1::         1::         1::         1::         1::         1::         1::         1::         1::         1::         1:::         1:::         1:::         1:::         1:::         1:::         1:::         1:::         1:::         1::::         1:::::         1:::::         1:::::::::  | 0.0000          | -40      | .00             |              |           |          |     |       |          |        | 2:              | 4.00000             | D GHz                     | -5.8291 dB<br>-5.9458 dB |
| 60.00   |                 | -50      | .00             |              |           |          |     |       |          |        | 4:              | 12.40000            | 0 GHz                     | -6.1271 dB               |
| 70.00       80.00       90.00       3       4       4       5000 GHz         90.00       FCh1: Start 10.0000 MHz       3       4       10.0000 MHz       5000 GHz       5.0274 dB         0.00dB/<br>.00dB/<br>.00dB       0.00       48.812       1       10.0000 GHz       5.0274 dB         222       3       4: 4       12.40000 GHz       5.3274 dB         20.00       30.00       1       10.0000 MHz       5.3274 dB         20.00       2       3       4: 4       12.40000 GHz       5.7274 dB         20.00       30.00       1       10.0000 MHz       1.034       1.034         20.00       30.00       1       10.0000 MHz       1.034       1.1795         30.00       4       12.40000 GHz       1.1800       1.1800       1.1800         40.00       5:       18.00000 GHz       1.1109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.100       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.109       1.100000 GHz       1.1109       1.109 <td></td> <td>-60</td> <td>.00</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>&gt;5:</td> <td>18.00000</td> <td>U GHZ</td> <td>-6.9950 dB</td>  |                 | -60      | .00             |              |           |          | -   |       |          |        | >5:             | 18.00000            | U GHZ                     | -6.9950 dB               |
| 80.00<br>90.00       30.00<br>Ch1: Start 10.0000 MHz       3       4       3       4         12<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00dB/<br>0.00d       1:<br>0.00dB/<br>0.00d       10.00<br>0.00d       0       0       4       10.00000 MHz       6.0245 dB         10.00<br>0.00dB/<br>0.00d       1:<br>0.00d       1:<br>0.00d       10.0000 MHz       5.0212 dB       5.0227 4 dB         10.00<br>0.00d       2:<br>0.000       4:<br>0.0000 GHz       5.0274 4B       5.00000 GHz       5.0274 4B         2:000U/<br>0.000       30.00       4:<br>2:<br>0.0000 GHz       10.00000 MHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0034<br>1:<br>10.00000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0034<br>1:<br>10.0000 GHz       1.0044<br>1:<br>10.0000 GHz       1.0044<br>1:<br>10.0000 GHz       1.0044<br>1:<br>10.0000 GHz       1.0044<br>1:<br>10.0000 GHz       1.0044<br>1:<br>10.0000 GHz       1.0044<br>1:<br>10.0000 GHz       1.0044<br>1:<br>1:<br>10.0000 GHz       1.0044<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:<br>1:   |                 | -70      | .00             |              |           |          |     |       |          |        |                 |                     |                           | _                        |
| 90.00         3         4           Stop 18.0000 GHz         Stop 18.0000 GHz         Stop 18.0000 GHz           S12         0.00         1:         10.00000 MHz         6.0245 dB           0.00dB/         0.00         2:         4.00000 GHz         5.8212 dB           0.00d B/         2:         3         4:         4         12.40000 GHz         5.3274 dB           20.00         2:         3         4:         4         12.40000 GHz         5.3274 dB           20.00         2:         3         4:         4         12.40000 GHz         5.3274 dB           20.00         30.00         2:         4.000000 GHz         5.3274 dB         1.0034           20.00         30.00         2:         4.000000 GHz         1.0034         1.0034           40.00         3:         8:000000 GHz         1.0034         1.0334           40.00         5:         18:000000 GHz         1.1039           50:00         3:         4:         12:400000 GHz         1.119           60:00         3:         4:         12:400000 GHz         1.119           60:00         -         3:         4:         5:         18:00000 GHz <t< td=""><td></td><td>-80</td><td>.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |                 | -80      | .00             |              |           |          |     |       |          |        |                 |                     |                           |                          |
| 312       0.00       #8 \$12       1:       10.000       MHz       6.0245 dB         0.00dB/<br>.000dB       2:       4.00000       GHz       5.8212 dB         322       2:       3       4:       4       12.40000       GHz       5.9274 dB         20.00       2:       3       4:       4       12.40000       GHz       5.9274 dB         20.00       2:       3       4:       4       12.40000       GHz       5.9274 dB         2:000/       30.00       1:       10.00000       MHz       6.1737 dB         3:0.00       3:       8.00000       GHz       7.9480 dB       1.034         4:0.00       3:       8.00000       GHz       1.0590         40.00       3:       8.00000       GHz       1.1959         5:       18.00000       GHz       1.1199         60.00       -70.00       3:       4:       12.40000       GHz       1.1199         -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00       -70.00  |                 | -90      | 1.00 Ch1        | : Start 10.  | 0000 MHz  |          |     |       | 3        |        | 4               |                     | Stop                      | 18.0000 GHz              |
| 0.00dB/<br>0.00dB/<br>0.00dB LogM<br>322<br>10.00<br>322<br>12.000/<br>0.00<br>30.00<br>40.00<br>50.00<br>40.00<br>50.00<br>40.00<br>50.00<br>40.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50      | 812             | 10       | .00 dB s        | 12           |           |          | 1   |       |          |        | 1:              | 10.00000            | 0 MHz                     | -6.0245 dB               |
| 10.00dB       LogM       3: A   | 10.00dB/        |          |                 |              |           |          |     |       |          |        | 2:              | 4.00000             | B GHz                     | -5.8212 dB               |
| 222         -20.00         -5.         18.00000 GHz         -7.0480 dB           .200U/         .30.00         -30.00         1:         10.000000 GHz         1.0034           .40.00         -30.00 <td></td> <td>LogM -10</td> <td>1.00</td> <td></td> <td></td> <td>2</td> <td>+</td> <td></td> <td>3</td> <td></td> <td>4: 4</td> <td>12.40000</td> <td>D GHz</td> <td>-6.1737 dB</td>   |                 | LogM -10 | 1.00            |              |           | 2        | +   |       | 3        |        | 4: 4            | 12.40000            | D GHz                     | -6.1737 dB               |
| .00U         SWR         30.00         10.00000 (MHz)         10.0000 (MHz)         10.   | 822<br>0.200U/  | -20      | 00              |              |           |          | +   |       |          |        | > <del>5.</del> | 18.00000            | <del>D GH2</del><br>0 MH2 | -7.0480 dB               |
| 40.00         5:         8:000000 GHz         1.17957           50.00         4:         12:400000 GHz         1.1800           60.00         5:         18:00000 GHz         1.1109           70.00         80.00         3         4         10:40000 GHz           80.00         -70.00         -70.00         -70.00         -70.00         -70.00           80.00         -70.11: Start 10.0000 MHz 2         -70.00 <td>1.00U</td> <td>SWR -30</td> <td>.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2:</td> <td>4.00000</td> <td>D GHz</td> <td>1.0590</td>  | 1.00U           | SWR -30  | .00             |              |           |          |     |       |          |        | 2:              | 4.00000             | D GHz                     | 1.0590                   |
| Si 18.00000 GHz 1.1109<br>60.00<br>70.00<br>80.00<br>90.00<br>Ch1: Start 10.0000 MHz 2<br>Stop 18.0000 GHz<br>Cont. CH 1: S21<br>C 2-Port   |                 | 40       |                 |              |           |          |     |       |          |        | 3:<br>4:        | 8.00000<br>12.40000 | <del>D GHz</del><br>D GHz | 1.1735                   |
| Cont. CH 1: S21 C 2-Port LCL  |                 | -50      |                 |              |           |          |     |       |          |        | 5:              | 18.00000            | 0 GHz                     | 1.1109                   |
| Cont. CH 1: S21 C 2-Port LCL  |                 | -60      |                 |              |           |          |     |       |          |        |                 |                     |                           |                          |
| 30.00         Ch1: Start 10.0000 MHz 2         3         4         5         5         5         6         6         7         6         7 <th7< th="">         7         <th7< th="">         7         <th7< th=""> <th7< th="">         7         7&lt;</th7<></th7<></th7<></th7<>  |                 | -/0      |                 |              |           |          |     |       |          |        |                 |                     |                           |                          |
| Cont. CH 1: S21 C 2-Port LCL  |                 | -90      | .00             |              |           | *        |     |       | 3        |        | 4               |                     |                           | 40.0000                  |
| Cont. CH 1: S21 C 2-Port LCL  |                 |          | ,Uh1            | : start 10.0 | UUUU MHa  |          | _   |       |          |        |                 |                     | Stop                      | 18.0000 GHz              |
|   | Cont.           | CH 1:    | S21             |              | C :       | 2-Port   |     |       |          |        |                 |                     |                           | LCL                      |

| Power Dividers - 2-way  |  |        |
|-------------------------|--|--------|
| Frequency: DC ~ 2.5 Ghz | P/N: IPD-GF2 Series                        |        |
|                         | Impedance : 50 Ω<br>Operating Temp : -10°C | ~ 50°C |

| Ordering Code  | Average<br>Power<br>(W) | Frequency<br>Range<br>(GHz) | Max<br>VSWR | Ins. Loss<br>(dB) | Connector<br>Type | Fig. |
|----------------|-------------------------|-----------------------------|-------------|-------------------|-------------------|------|
| IPD-GF2-2-FFF  | 2                       | DC-2.5                      | ⊴.30        | 6±0.75            | SMA (F,F,F)       | 1    |
| IPD-GF2-5-FFF  | 5                       | DC-1.5                      | ⊴.25        | 6±0.5             | SMA (F,F,F)       | 1    |
| IPD-GF2-10-FFF | 10                      | DC-1                        | ⊴.20        | 6±0.5             | SMA (F,F,F)       | 2    |



# Power Dividers - 3, 4, and 5-way

Frequency: DC ~ 2 Ghz

P/N: IPD-GF?.... Series



| Impedance      | : | 50 Ω         |
|----------------|---|--------------|
| Operating Temp | : | -10°C ~ 50°C |

| Ordering Code      | Average<br>Power<br>(W) | Frequency<br>Range<br>(GHz) | Max<br>VSWR | Ins. Loss<br>(dB)      | Connector<br>Type | Fig. |
|--------------------|-------------------------|-----------------------------|-------------|------------------------|-------------------|------|
| IPD-GF3-2-SMA(FFF) | 2                       | DC-1<br>1-2                 | ⊴.2<br>⊴.3  | 9.5 ± 0.5<br>9.5 ± 1.5 | SMA (F,F,F)       | 1    |
| IPD-GF4-2-SMA(FFF) | 2                       | DC-1<br>1-2                 | ⊴.2<br>⊴.3  | 12 ± 0.5<br>12 ± 1.5   | SMA (M,F,F)       | 1    |
| IPD-GF5-2-SMA(FFF) | 2                       | DC-1<br>1-2                 | ⊴.2<br>⊴.3  | 14 ± 0.5<br>14 ± 1.5   | SMA (F,F,F)       | 2    |
| IPD-GF3-2-N(FFF)   | 2                       | DC-1<br>1-2                 | ⊴.2<br>⊴.3  | 9.5 ± 0.5<br>9.5 ± 1.5 | N (F,F,F)         | 1    |
| IPD-GF4-2-N(FFF)   | 2                       | DC-1<br>1-2                 | ⊴.2<br>⊴.3  | 12 ± 0.5<br>12 ± 1.5   | N (F,F,F)         | 1    |
| IPD-GF5-2-N(FFF)   | 2                       | DC-1<br>1-2                 | ⊴.2<br>⊴.3  | 14 ± 0.5<br>14 ± 1.5   | N (F,F,F)         | 2    |



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