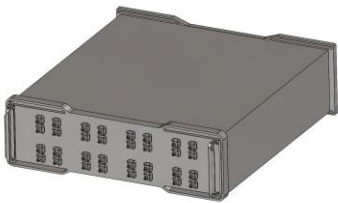


16\*16巴特勒矩阵

型号 - SA-07-16B033038 Rev.A  
3.3-3.8GHz 16\*16巴特勒矩阵；同轴连接器封装



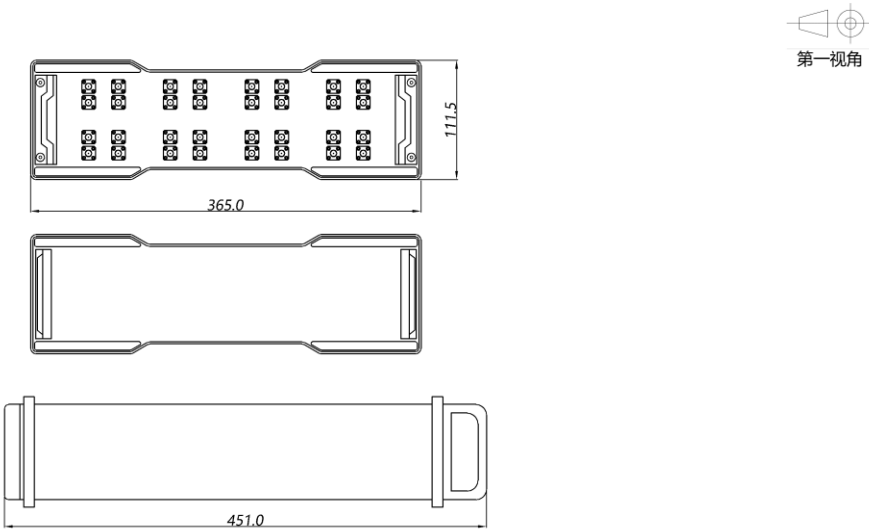
本技术规格书内容变化恕不另行通知

机电性能

|                   |                                                                    |         |                  |
|-------------------|--------------------------------------------------------------------|---------|------------------|
| 工作频段              | GHz                                                                | 3.3-3.8 | 任意100MHz         |
| VSWR              | :1 (Max.)                                                          | 1.5     | 1.5              |
| 插入损耗 <sup>1</sup> | dB(Max.)                                                           | 16      | 16               |
| 幅度平衡              | dB(Max.)                                                           | ±0.8    | ±0.6             |
| 幅度平坦度             | dB(Max.)                                                           | ±1      | ±0.8             |
| 相位精度              | Deg. (Max.)                                                        | ±5      | ±4               |
| 隔离度               | dB(Min.)                                                           | 13      | 13               |
| 功率 <sup>2</sup>   | W(Max.) 额定(CW): 5; 峰值(Peak): 500;                                  |         |                  |
| 重量                | g(Max.)                                                            | TBD     | 外形尺寸 mm 机箱, 高度2U |
| 封装类型              | 不锈钢同轴接头; 输入端: SMA 阴头 [F], 输出端: SMA 阴头 [F]                          |         |                  |
| 表面处理              | 丙烯酸漆喷涂                                                             |         |                  |
| 温度指标              | 工作: -40~+70°C, 储存: -55~+85°C; 符合SJ 20527A-2003 3.12.1标准c及3.12.2标准c |         |                  |
| 环境指标              | N/A                                                                |         |                  |
| 定制要求              | N/A                                                                |         |                  |

注释 1. 包含理论插损12dB  
2. 额定功率基于单个输入端

2D外形图

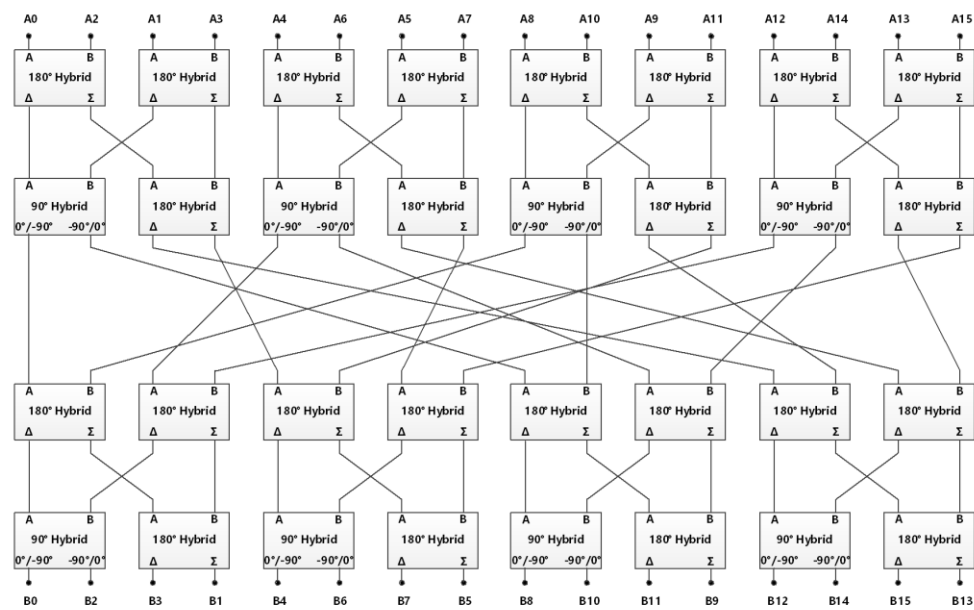


# 16\*16巴特勒矩阵

型号 - SA-07-16B033038 Rev.A

3.3-3.8GHz 16\*16巴特勒矩阵；同轴连接器封装

拓扑图



I/O 相位矩阵

| Input<br>Output | A0  | A1  | A2  | A3  | A4  | A5  | A6  | A7  | A8  | A9  | A10 | A11 | A12 | A13 | A14 | A15 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B0              | 180 | 90  | 0   | -90 | 90  | 0   | -90 | 180 | 0   | -90 | 180 | 90  | -90 | 180 | 90  | 0   |
| B1              | 90  | 0   | -90 | 180 | 90  | 0   | -90 | 180 | 90  | 0   | -90 | 180 | 90  | 0   | -90 | 180 |
| B2              | 90  | 0   | -90 | 180 | 180 | 90  | 0   | -90 | -90 | 180 | 90  | 0   | 0   | -90 | 180 | 90  |
| B3              | 180 | 90  | 0   | -90 | 0   | -90 | 180 | 90  | 180 | 90  | 0   | -90 | 0   | -90 | 180 | 90  |
| B4              | 90  | 90  | 90  | 90  | 0   | 0   | 0   | 0   | -90 | -90 | -90 | -90 | 180 | 180 | 180 | 180 |
| B5              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| B6              | 0   | 0   | 0   | 0   | 90  | 90  | 90  | 90  | 180 | 180 | 180 | 180 | -90 | -90 | -90 | -90 |
| B7              | 90  | 90  | 90  | 90  | -90 | -90 | -90 | -90 | 90  | 90  | 90  | 90  | -90 | -90 | -90 | -90 |
| B8              | 90  | 180 | -90 | 0   | 0   | 90  | 180 | -90 | -90 | 0   | 90  | 180 | 180 | -90 | 0   | 90  |
| B9              | 0   | 90  | 180 | -90 | 0   | 90  | 180 | -90 | 0   | 90  | 180 | -90 | 0   | 90  | 180 | -90 |
| B10             | 0   | 90  | 180 | -90 | 90  | 180 | -90 | 0   | 180 | -90 | 0   | 90  | -90 | 0   | 90  | 180 |
| B11             | 90  | 180 | -90 | 0   | -90 | 0   | 90  | 180 | 90  | 180 | -90 | 0   | -90 | 0   | -90 | 180 |
| B12             | 180 | 0   | 180 | 0   | 90  | -90 | 90  | -90 | 0   | 180 | 0   | 180 | -90 | 90  | -90 | 90  |
| B13             | 90  | -90 | 90  | -90 | 90  | -90 | 90  | -90 | 90  | -90 | 90  | -90 | 90  | -90 | 90  | -90 |
| B14             | 90  | -90 | 90  | -90 | 180 | 0   | 180 | 0   | -90 | 90  | -90 | 90  | 0   | 180 | 0   | 180 |
| B15             | 180 | 0   | 180 | 0   | 0   | 180 | 0   | 180 | 180 | 0   | 180 | 0   | 0   | 180 | 0   | 180 |