

## RFT 系列射频变压器

### ★ 特征与用途 FEATURES AND APPLICATIONS

- 宽频范围内实现单端信号和差分信号的相互转换
- 低插入损耗、高返回损耗
- 参照GJB 1661-1993、Q/XEC 146A-2016、Q/XEC 147A-2016、Q/XEC 086A-2016

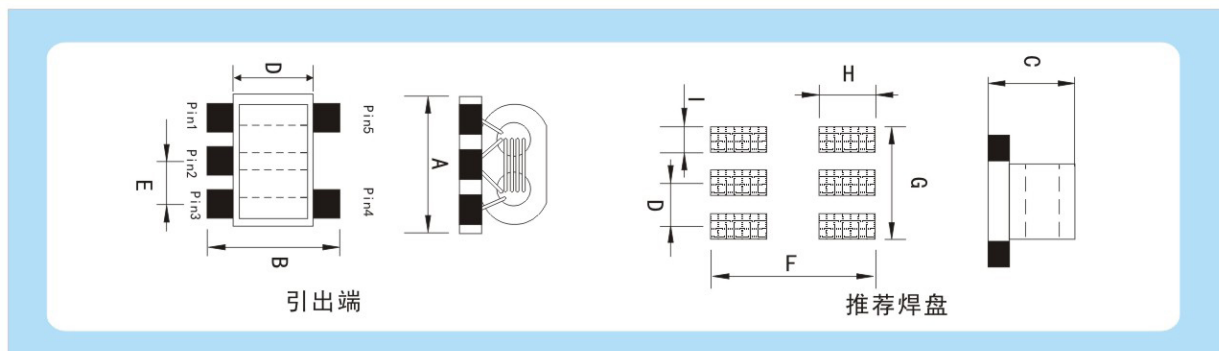


### ★ 产品型号 PRODUCT IDENTIFICATION

RFT    4042    801    —    4/1    A  
①      ②      ③      ④      ⑤

- ① 产品形别码：RFT表示射频变压器
- ② 尺寸码：4042表示长4.0mm和厚度4.2mm
- ③ 最大工作频率：801表示800MHz
- ④ 阻抗比：4/1表示4:1
- ⑤ 产品序列：缺省为初期产品，字母位代表同类产品的扩展产品或客户定制产品

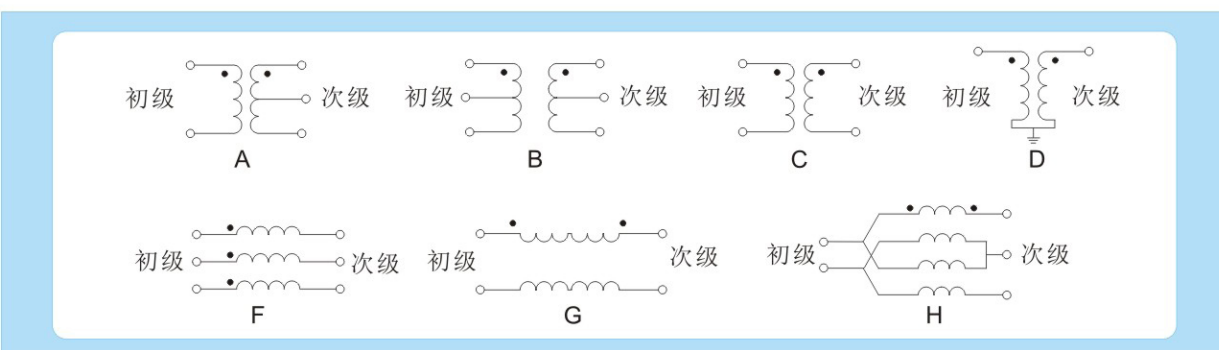
### ★ 外观尺寸 SHAPE AND DIMENSIONS



单位: mm

| 型 号     | 外形尺寸    |         |         |         |           |           |          |           |           |
|---------|---------|---------|---------|---------|-----------|-----------|----------|-----------|-----------|
|         | A (Max) | B (Max) | C (Max) | D (Max) | E         | F         | G        | H         | I         |
| RFT4042 | 4.0     | 4.2     | 4.2     | 2.5     | 1.27±0.12 | 4.83±0.05 | 3.3±0.05 | 1.65±0.05 | 0.76±0.05 |

### ★ 配线结构 WINDING STRUCTURE



★ 规格特性

SPECIFICATIONS

● RFT4042系列

| 规格型号            | 工作频率范围       | 插入损耗      | 返回损耗      | 阻抗比<br>次级：初级 | 电压比<br>次级：初级 | 配线结构 |
|-----------------|--------------|-----------|-----------|--------------|--------------|------|
| RFT4042301-4/1  | 1MHz~300MHz  | 3.0dB Max | 3.0dB Min | 4:1          | 2:1          | A    |
| RFT4042501-1/1  | 1MHz~500MHz  | 3.0dB Max | 3.0dB Min | 1:1          | 1:1          | A    |
| RFT4042801-4/1  | 10MHz~800MHz | 3.0dB Max | 3.0dB Min | 4:1          | 2:1          | A    |
| RFT4042801-4/1A | 3MHz~800MHz  | 3.0dB Max | 3.0dB Min | 4:1          | 2:1          | A    |
| RFT4042302-1/1  | 4.5MHz~3GHz  | 3.0dB Max | 3.0dB Min | 1:1          | 1:1          | G    |
| RFT4042302-1/1A | 4.5MHz~3GHz  | 3.0dB Max | 3.0dB Min | 1:1          | 1:1          | G    |
| RFT4042302-1/1B | 4.5MHz~3GHz  | 3.0dB Max | 3.0dB Min | 1:1          | 1:1          | G    |
| RFT4042302-4/1  | 0.5GHz~3GHz  | 3.0dB Max | 3.0dB Min | 1:1          | 1:1          | H    |

★ 扩展产品型号

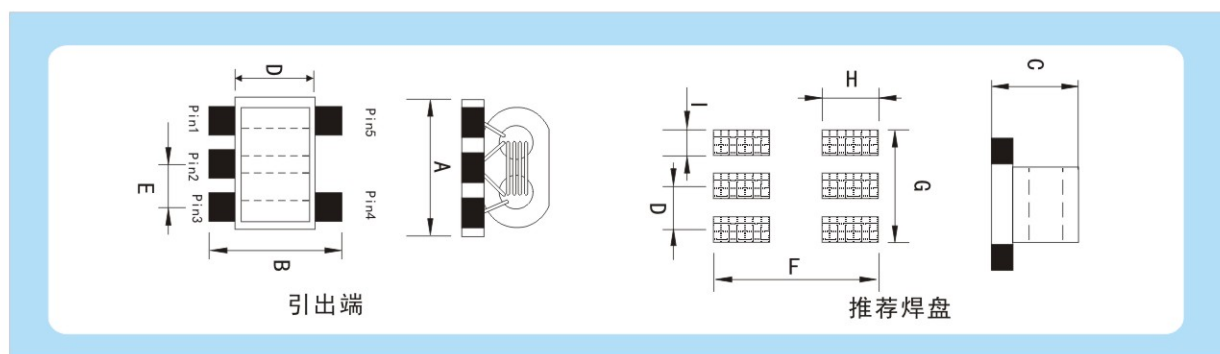
EXPANDING PRODUCT IDENTIFICATION

RFT 4042 A — 1/1 A  
① ② ③ ④ ⑤

- ① 产品形别码：RFT表示射频变压器
- ② 尺寸码：4042表示长4.0mm和厚度4.2mm
- ③ 产品配线结构：A表示A结构
- ④ 阻抗比：1/1表示1:1
- ⑤ 产品序列：缺省为初期产品，字母位代表同类产品的扩展产品或客户定制产品。

★ 外观尺寸

SHAPE AND DIMENSIONS

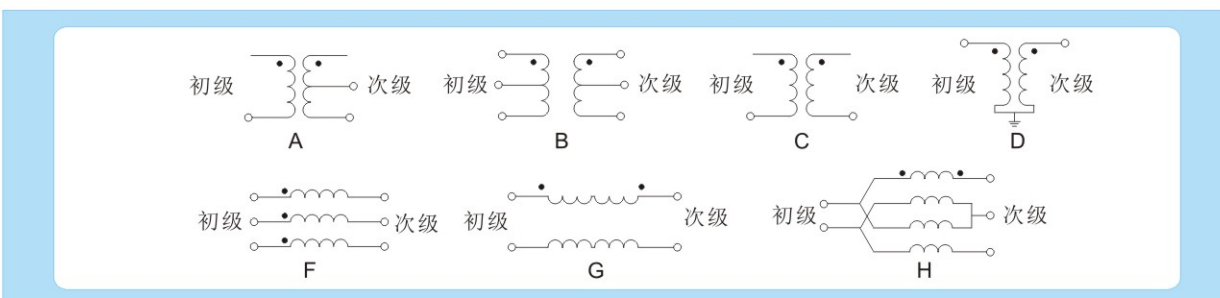


单位：mm

| 型 号     | 外形尺寸    |         |         |         |           |           |          |           |           |
|---------|---------|---------|---------|---------|-----------|-----------|----------|-----------|-----------|
|         | A (Max) | B (Max) | C (Max) | D (Max) | E         | F         | G        | H         | I         |
| RFT4042 | 4.0     | 4.2     | 4.2     | 2.5     | 1.27±0.12 | 4.83±0.05 | 3.3±0.05 | 1.65±0.05 | 0.76±0.05 |

★ 配线结构

WINDING STRUCTURE



★ 规格特性

SPECIFICATIONS

● RFT4042系列扩展型号

| 规格型号          | 工作频率范围         | 插入损耗      | 返回损耗      | 阻抗比<br>次级：初级 | 电压比<br>次级：初级 | 配线结构 |
|---------------|----------------|-----------|-----------|--------------|--------------|------|
| RFT4042A-1/4  | 60MHz~130MHz   | 3.0dB Max | 3.0dB Min | 1 : 4        | 1 : 2        | A    |
| RFT4042A-1/1  | 1MHz~600MHz    | 3.0dB Max | 5.0dB Min | 1 : 1        | 1 : 1        | A    |
| RFT4042A-2/1  | 1MHz~350MHz    | 3.0dB Max | 3.0dB Min | 2 : 1        | 1.4 : 1      | A    |
| RFT4042A-4/1  | 1MHz~850MHz    | 3.0dB Max | 5.0dB Min | 4 : 1        | 2 : 1        | A    |
| RFT4042C-1/1  | 1MHz~600MHz    | 3.0dB Max | 5.0dB Min | 1 : 1        | 1 : 1        | C    |
| RFT4042G-1/1  | 1MHz~3000MHz   | 3.0dB Max | 5.0dB Min | 1 : 1        | 1 : 1        | G    |
| RFT4042H-4/1  | 10MHz~2000MHz  | 3.0dB Max | 5.0dB Min | 4 : 1        | 2 : 1        | H    |
| RFT4042H-4/1A | 500MHz~3000MHz | 3.0dB Max | 3.0dB Min | 4 : 1        | 2 : 1        | H    |

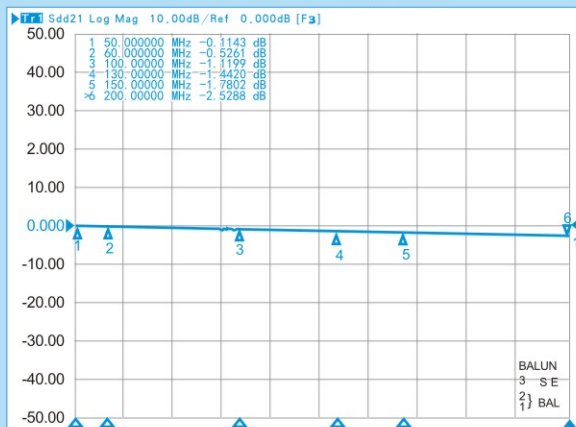
说明：扩展型号命名方式与初期开发型号相比，增加了配线结构参数，便于同类产品进行拓展及规范管理。

★ 替代表

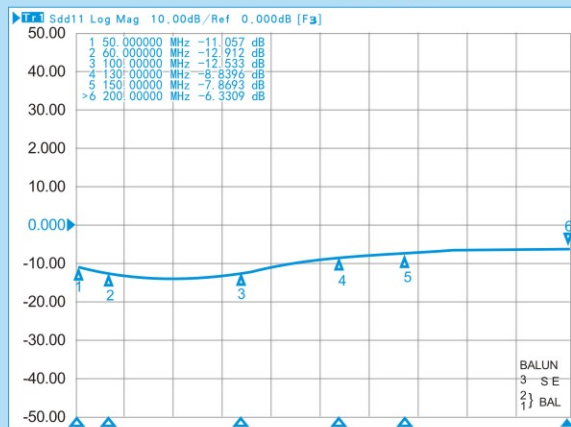
FOR REPRESENTATIVES

| 建议型号          | 可替代初期型号                       | 对应国外型号                | 备注 |
|---------------|-------------------------------|-----------------------|----|
| RFT4042A-1/4  | -                             | -                     | 定制 |
| RFT4042A-1/1  | RFT4042501-1/1                | TC1-1T+、WBC1-1TL      |    |
| RFT4042A-2/1  | -                             | TC2-1T+               |    |
| RFT4042A-4/1  | RFT4042301-4/1、RFT4042801-4/1 | TCM4-1W+              |    |
| RFT4042C-1/1  | -                             | TC1-1G2+              |    |
| RFT4042G-1/1  | RFT4042302-1/1(A/B)           | ETC1-1-13、TC1-1-13M+  |    |
| RFT4042H-4/1  | -                             | -                     | 定制 |
| RFT4042H-4/1A | RFT4042302-4/1                | ETC1.6-4-2-3、TCM4-25+ |    |

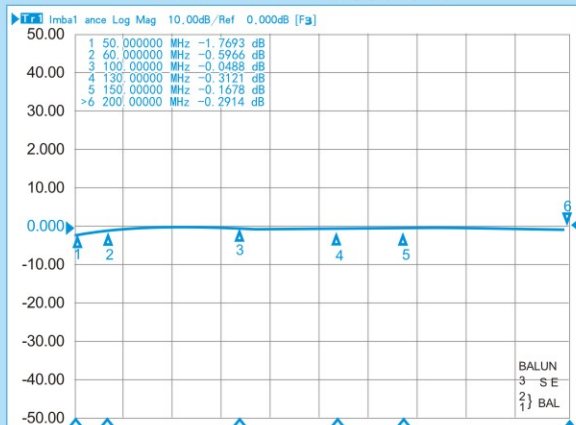
RFT4042A-1/4 插入损耗



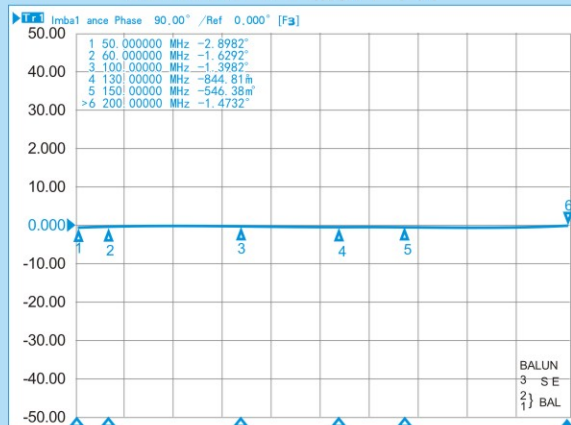
RFT4042A-1/4 返回损耗



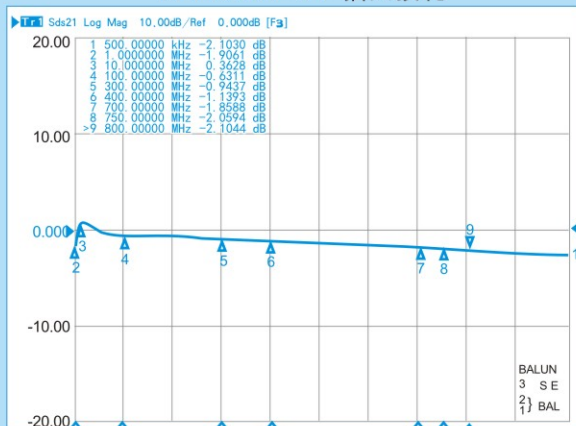
RFT4042A-1/4 幅度不平衡



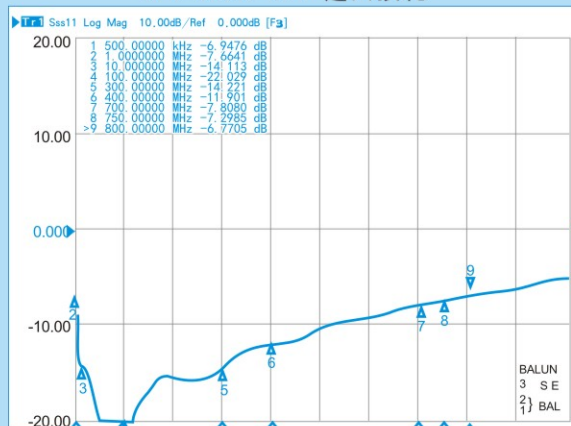
RFT4042A-1/4 相位不平衡



RFT4042A-1/1 插入损耗

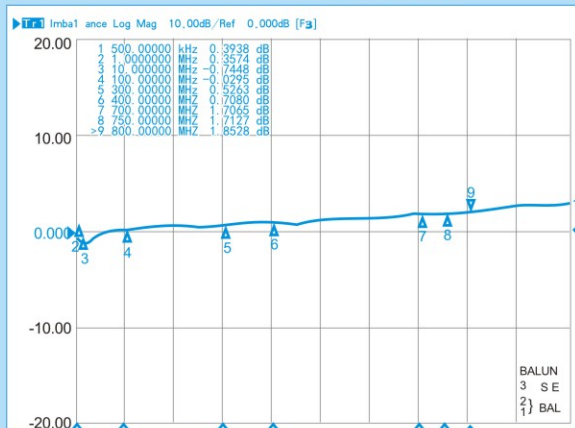


RFT4042A-1/1 返回损耗

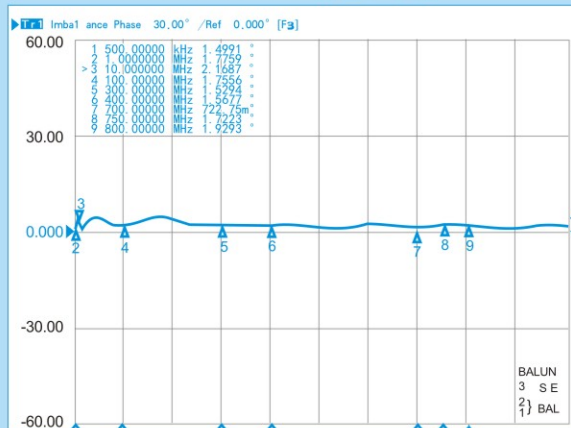




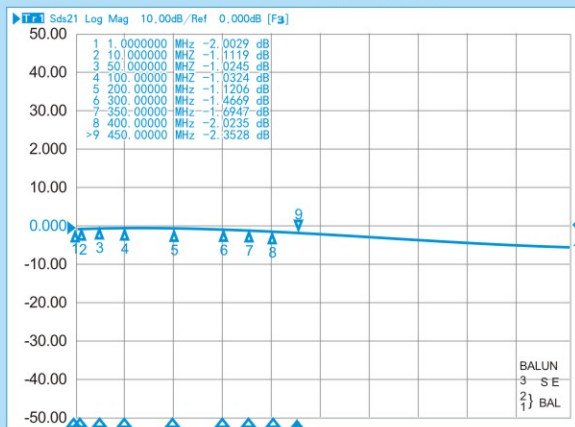
RFT4042A-1/1 幅度不平衡



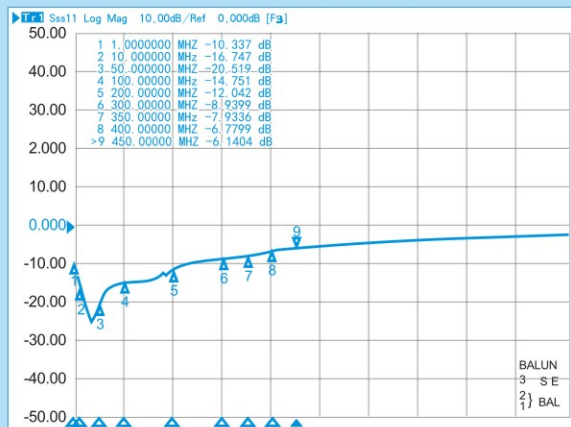
RFT4042A-1/1 相位不平衡



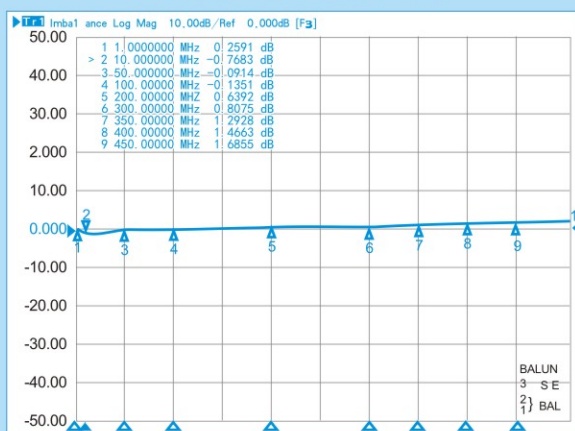
RFT4042A-2/1 插入损耗



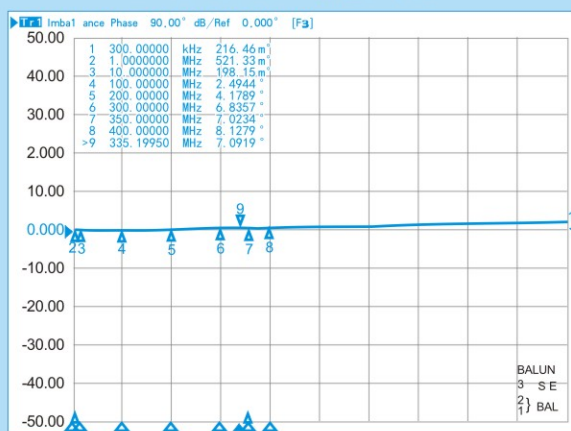
RFT4042A-2/1 返回损耗



RFT4042A-2/1 幅度不平衡



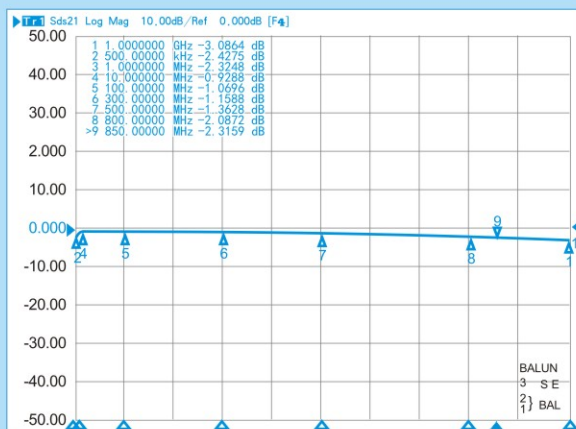
RFT4042A-2/1 相位不平衡



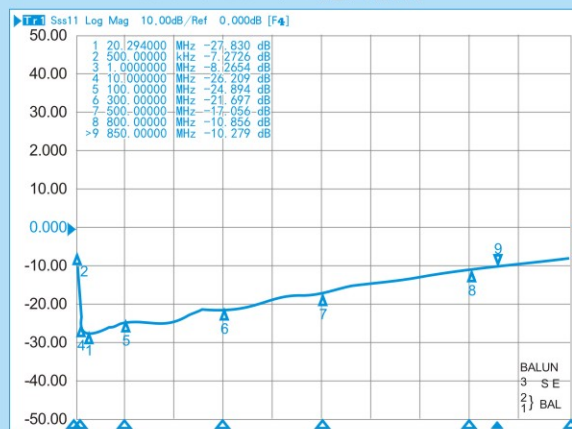
★ 电气曲线图

CHART OF ELECTRICAL CHARACTERISTICS

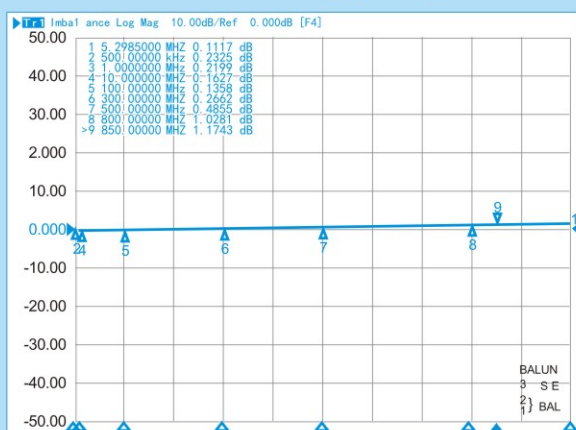
RFT4042A-4/1 插入损耗



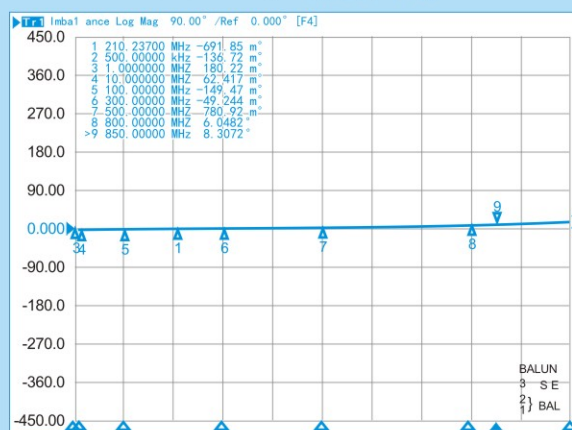
RFT4042A-4/1 返回损耗



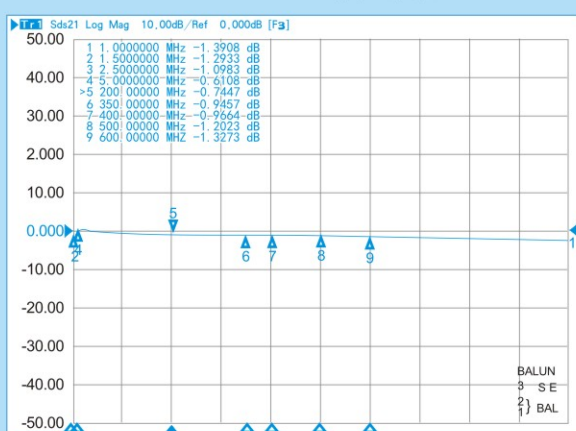
RFT4042A-4/1 幅度不平衡



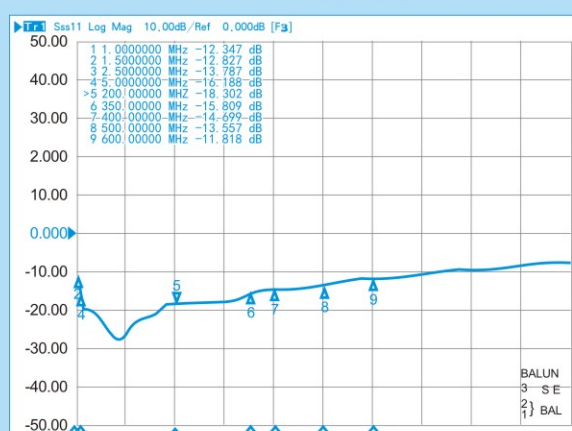
RFT4042A-4/1 相位不平衡



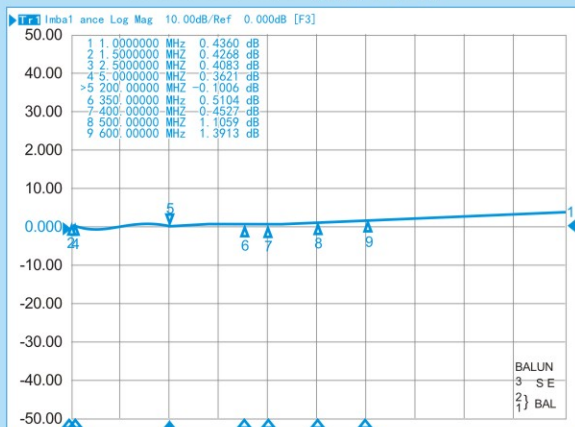
RFT4042C-1/1 插入损耗



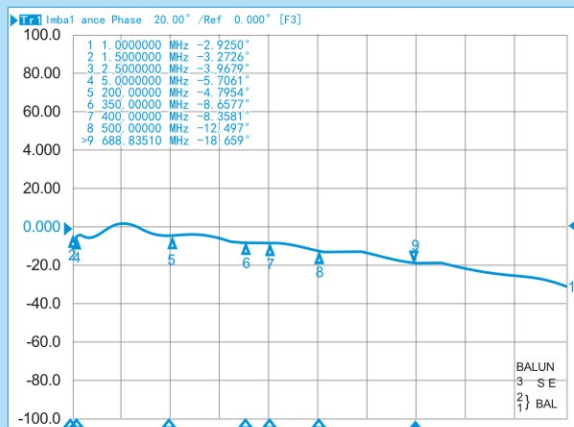
RFT4042C-1/1 返回损耗



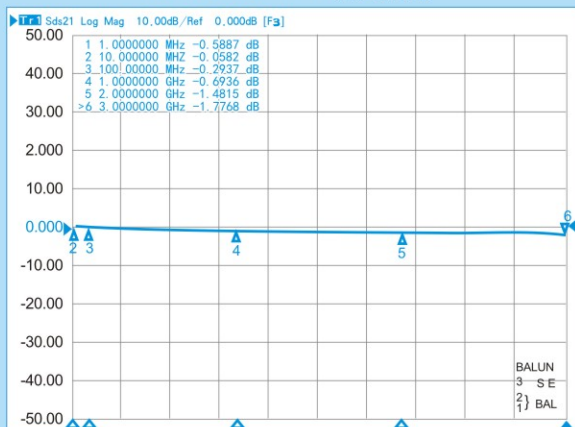
RFT4042C-1/1 幅度不平衡



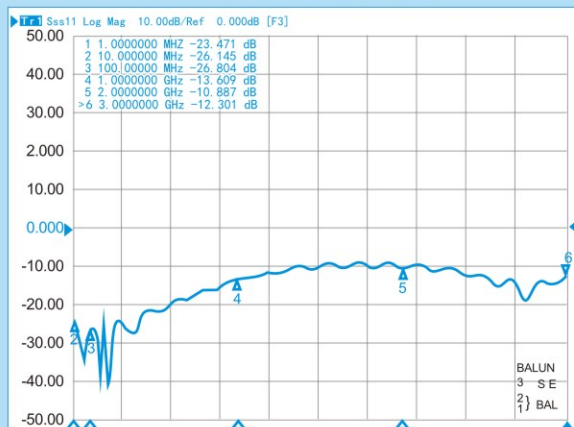
RFT4042C-1/1 相位不平衡



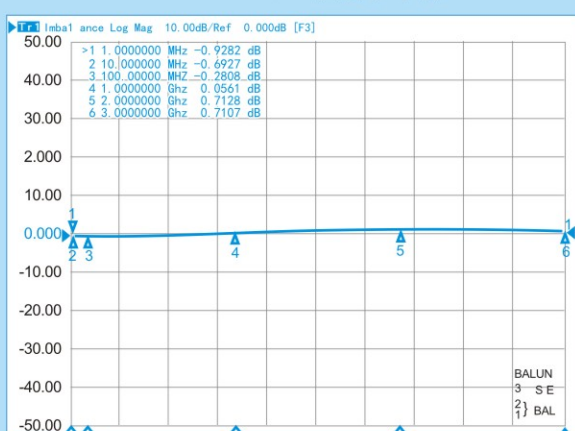
RFT4042G-1/1 插入损耗



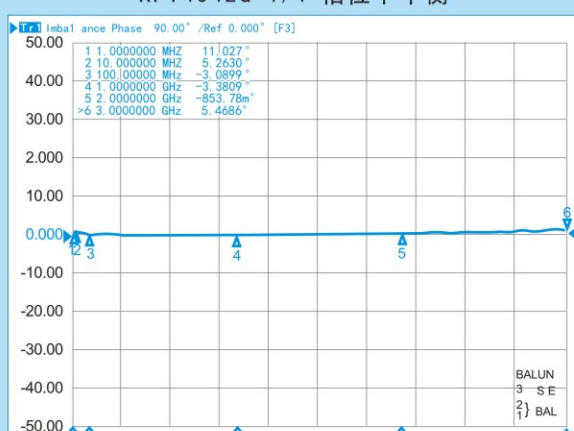
RFT4042G-1/1 返回损耗



RFT4042G-1/1 幅度不平衡



RFT4042G-1/1 相位不平衡

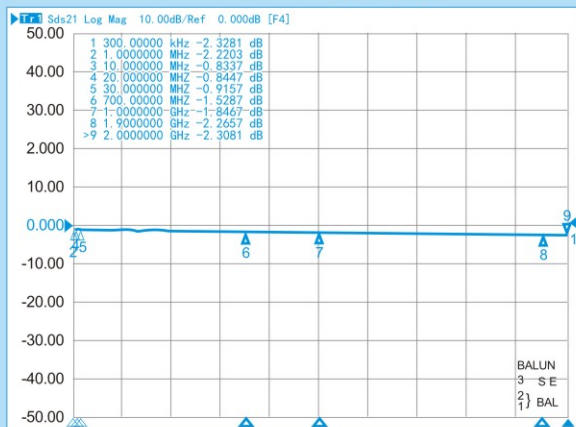




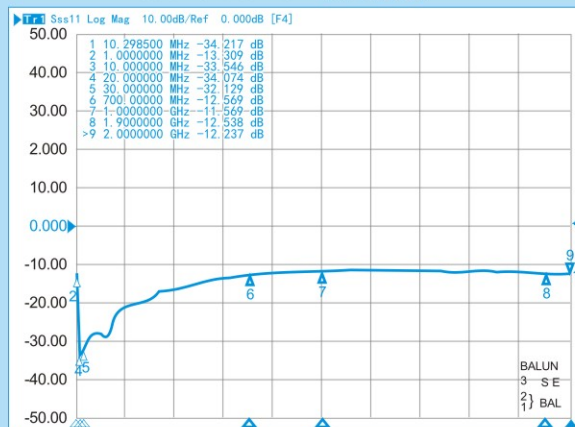
★ 电气曲线图

CHART OF ELECTRICAL CHARACTERISTICS

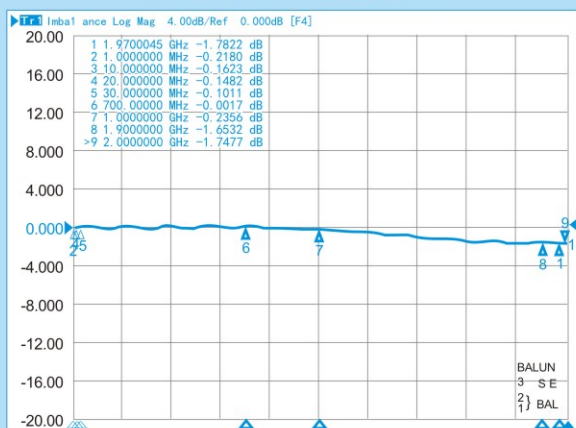
RFT4042H-4/1 插入损耗



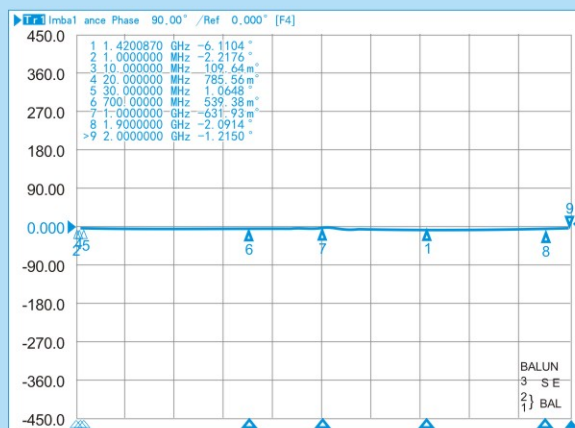
RFT4042H-4/1 返回损耗



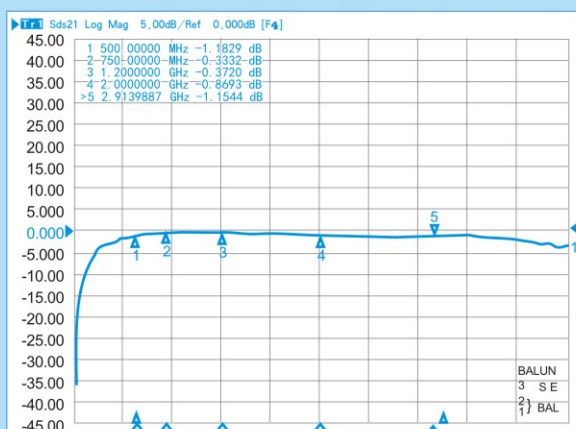
RFT4042H-4/1 幅度不平衡



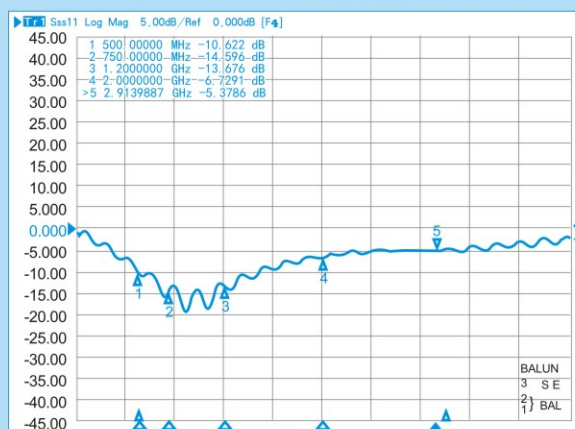
RFT4042H-4/1 相位不平衡



RFT4042H-4/1A 插入损耗

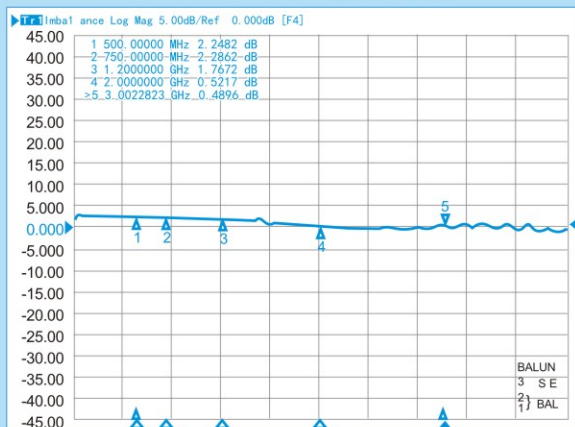


RFT4042H-4/1A 返回损耗





RFT4042H-4/1A 幅度不平衡



RFT4042H-4/1A 相位不平衡

