

# Passive Probe

无源探极

1X&10X

UT-H01 25MHz

UT-H03 60MHz

UT-H04 100MHz

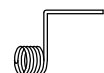
UT-H05 200MHz

UT-H06 300MHz

## UT-H00 Series Probe Assembly Drawing/装配图



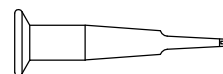
BNC adapte /BNC转接器



Electrical Contact Ground/ 探地弹簧



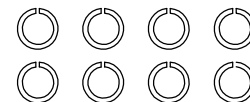
IC Tip/IC针套



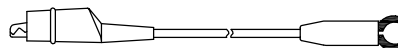
Sprung Hook/探钩



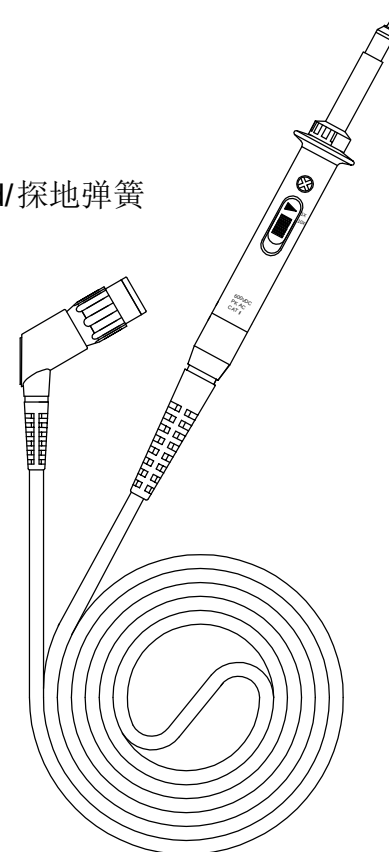
Adjustment Tool/ 调试棒



Marker Ring/色环



Ground Lead/接地线



## 性能与指标

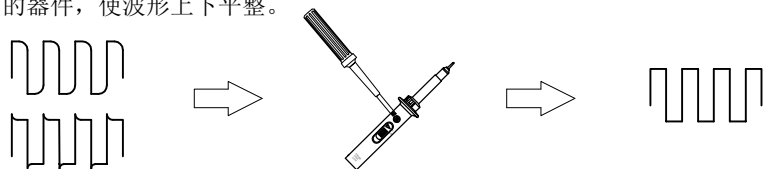
UT-H00系列探极的下列参数要求与其连接的示波器必须具有1MΩ的输入阻抗。使用的测试设备至少有20分钟的预热时间，并在不超过表中描述的极限环境中使用。

| 项目     | UT-H01                                            | UT-H03                | UT-H04                 | UT-H05                 | UT-H06                 |
|--------|---------------------------------------------------|-----------------------|------------------------|------------------------|------------------------|
| 衰减     | 1:10                                              |                       |                        |                        |                        |
| 输入电阻   | 1MΩ:10MΩ                                          |                       |                        |                        |                        |
| 输入电容   | 1X:85pF-115pF 10X:14.5pF-17.5pF                   |                       |                        |                        |                        |
| 系统带宽   | 1X:10MHz<br>10X:25MHz                             | 1X:10MHz<br>10X:60MHz | 1X:10MHz<br>10X:100MHz | 1X:10MHz<br>10X:200MHz | 1X:10MHz<br>10X:300MHz |
| 补偿范围   | 10X:5pF-30pF                                      | 10X:5pF-30pF          | 10X:5pF-30pF           | 10X:5pF-30pF           | 10X:5pF-30pF           |
| 最大工作电压 | 1X:≤200V pk 10X:≤600V pk                          |                       |                        |                        |                        |
| 安全     | Conformed IEC-61010 CAT II 1X:150V AC 10X:300V AC |                       |                        |                        |                        |
| 净重     | <55g                                              |                       |                        |                        |                        |
| 线长     | 130cm±1.5cm                                       |                       |                        |                        |                        |
| 使用温度   | -10°C - +50°C                                     |                       |                        |                        |                        |
| 湿度     | <85% (相对湿度)                                       |                       |                        |                        |                        |

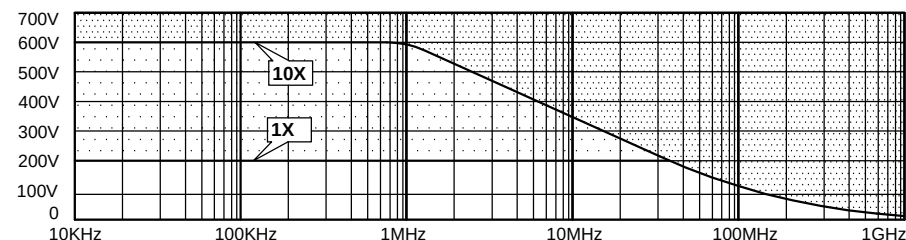
## 维护

### 低频探极补偿

使用探极进行测试前，首先请检查本品的低频补偿，将其调至与使用的示波器匹配。一般的示波器在其前面板上都有一个校准信号输出端，将探极开关拨至X10位置，并接到此信号源，示波器显示1KHz测试信号。如图所示，用调试棒调节探极BNC端的调节孔内的器件，使波形上下平整。



### 电压-频率特性图 (VDC+Peak AC)



## Specifications

These characteristics apply to a UT-H00 series probe installed on a specified oscilloscope. When used with another instrument, the oscilloscope must have an input impedance of 1 MΩ. The instrument must have a warm-up period of at least 20 minutes and be in an environment that does not exceed the limits.

| Item                          | UT-H01                                            | UT-H03                | UT-H04                 | UT-H05                 | UT-H06                 |
|-------------------------------|---------------------------------------------------|-----------------------|------------------------|------------------------|------------------------|
| Attenuation                   | 1:10                                              |                       |                        |                        |                        |
| Input Resistance              | 1MΩ:10MΩ                                          |                       |                        |                        |                        |
| Input Capacitance             | 1X:85pF-115pF 10X:14.5pF-17.5pF                   |                       |                        |                        |                        |
| System Bandwidth              | 1X:10MHz<br>10X:25MHz                             | 1X:10MHz<br>10X:60MHz | 1X:10MHz<br>10X:100MHz | 1X:10MHz<br>10X:200MHz | 1X:10MHz<br>10X:300MHz |
| Compensation Range            | 10X:5pF-30pF                                      | 10X:5pF-30pF          | 10X:5pF-30pF           | 10X:5pF-30pF           | 10X:5pF-30pF           |
| Maximum Working Input Voltage | 1X:≤200V pk 10X:≤600V pk                          |                       |                        |                        |                        |
| Safety                        | Conformed IEC-61010 CAT II 1X:150V AC 10X:300V AC |                       |                        |                        |                        |
| Net Weight                    | <55g                                              |                       |                        |                        |                        |
| Lenght                        | 130cm±1.5cm                                       |                       |                        |                        |                        |
| Temperature                   | -10°C - +50°C                                     |                       |                        |                        |                        |
| Humidity                      | ≤85% (Relative Humidity)                          |                       |                        |                        |                        |

## Maintenance

### Compensation Adjustment

Before taking any measurements using a probe, first check the compensation of the probe and adjust it to match the channel inputs. Most oscilloscopes have a square wave reference signal available at a terminal on the front panel used to compensate the probe. Connect the probe to the signal source to display a 1KHz test signal on your oscilloscope. Set the probe to X10 position.



### Maximum Working Voltage Derating Curve (VDC+Peak AC)

