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## ADF26 Series Differential Probe



# 1. Main Specifications

## 1-1 Main specifications

| Specifications                          | ADF26                                                                          | ADF26A                                                                         | ADF26C                                                                         |
|-----------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Bandwidth (-3dB)                        | 25MHz                                                                          | 25MHz                                                                          | 70MHz                                                                          |
| Rise time                               | 14ns                                                                           | 14ns                                                                           | 5ns                                                                            |
| Accuracy                                | $\pm 2\%$                                                                      |                                                                                |                                                                                |
| Output voltage                          | $\pm 2.8V$                                                                     | $\pm 1.4V$                                                                     | $\pm 2.8V$                                                                     |
| Offset zero                             | $\pm 5mV$                                                                      |                                                                                |                                                                                |
| Attenuation                             | 50X, 500X                                                                      | 50X, 500X                                                                      | 200X, 2000X                                                                    |
| Maximum measurable differential voltage | 50X: 140Vp<br>500X: 1400Vp                                                     | 50X: 70Vp<br>500X: 700Vp                                                       | 200X: 560Vp<br>2000X: 5600Vp                                                   |
| Maximum input voltage to earth          | 600Vrms CATIII<br>1000Vrms CAT II                                              | 600Vrms CATIII<br>1000Vrms CAT II                                              | 1000Vrms CATIII<br>2300Vrms CAT I                                              |
| Input impedance                         | 4M $\Omega$ /7pF each input to ground<br>8M $\Omega$ /3.5pF between two inputs | 4M $\Omega$ /7pF each input to ground<br>8M $\Omega$ /3.5pF between two inputs | 16M $\Omega$ /4pF each input to ground<br>32M $\Omega$ /2pF between two inputs |
| CMRR                                    | DC: $> 80dB$                                                                   |                                                                                |                                                                                |
|                                         | 100Hz: $> 60dB$                                                                |                                                                                |                                                                                |
|                                         | 1MHz: $> 50dB$                                                                 |                                                                                |                                                                                |
| Noise                                   | 1.5mVrms                                                                       | 1.5mVrms                                                                       | 1.5mVrms                                                                       |
| Output impedance                        | 50 $\Omega$                                                                    |                                                                                |                                                                                |
| Power                                   | USB 5V/2A adapter                                                              |                                                                                |                                                                                |
| Safety standard                         | EN61010-1: 2010                                                                |                                                                                |                                                                                |
| EMC standard                            | EN61326-1:2013 EN61000-3-2:2006+A1:2009+A2:2009<br>EN61000-3-3:2013            |                                                                                |                                                                                |

## 1-2 Mechanical Specifications

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|---------------------|-------------|
| Input cable length  | 45cm        |
| Output cable length | 1m          |
| Alligator clips     | 106*43*16mm |
| Pincer clips        | 152*50*13mm |
| Probe body          | 176*65*25mm |
| Weight (probe only) | 216g        |

## 1-3 Environment Specification

| Specifications        | Index    |
|-----------------------|----------|
| Operating temperature | 0℃～40℃   |
| Storing temperature   | -30℃～70℃ |
| Operating humidity    | ≤85%RH   |
| Storing humidity      | ≤90%RH   |
| Operating altitude    | 3000m    |
| Storing altitude      | 12000m   |