# TECHNICAL DATA // Series 7840 • 7840/G

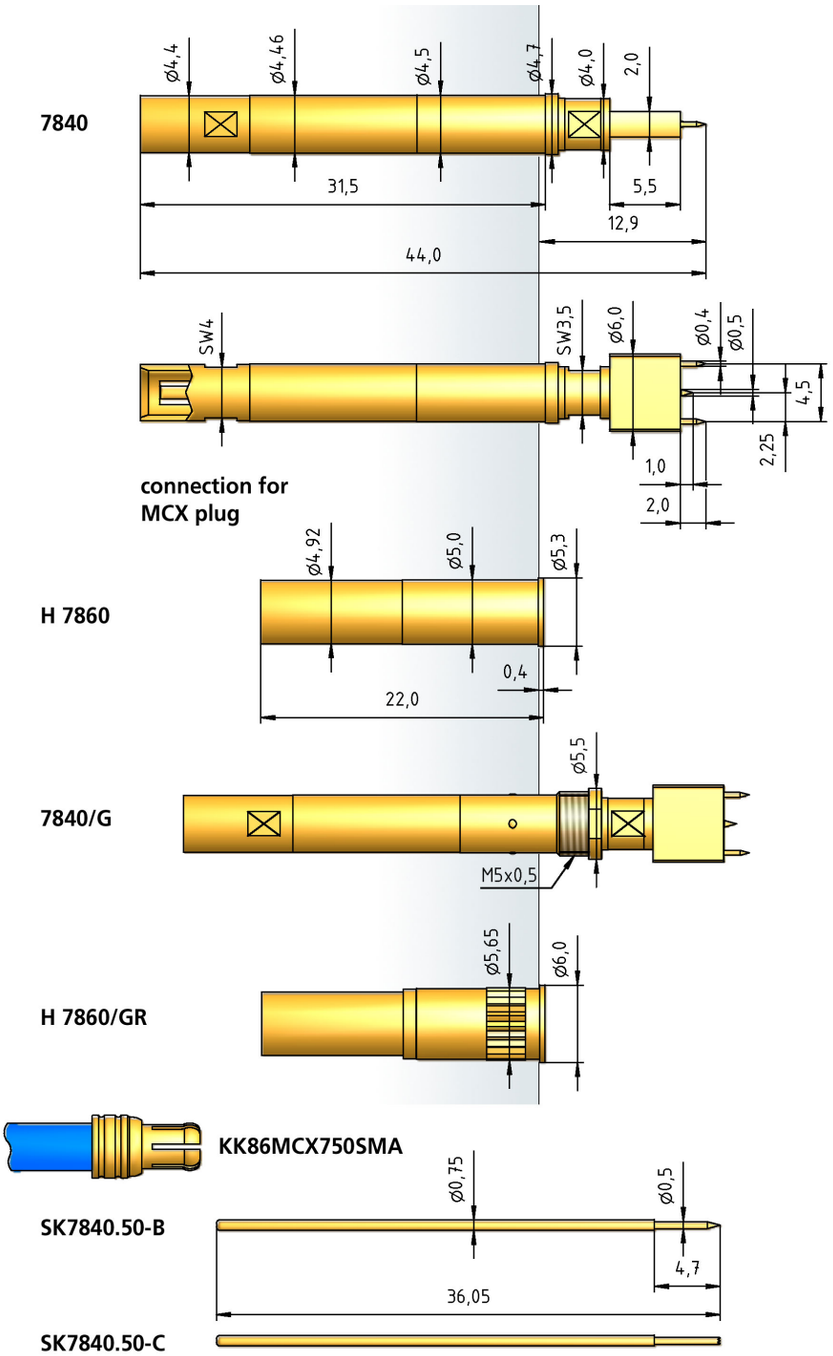
PTR HARTMANN
A Phoenix Mecano Company

High Frequency Test Probe - Impedance 50 Ohm - up to 4 GHz

| | |
|---|---|
| **HIGHLIGHTS** | |
| For high frequency measurements | |
| Compact design | |
| Also screwable type available | |
| Inner and outer conductor are interchangeable of each other | |
| Inner conductor rigid / outer conductor independent | |
| **MECHANICAL DATA - Spring-Loaded Probe Tip** | |
| Full travel | 1.50 mm |
| Working travel | 1.00 mm |
| Pre-loaded spring force | 2x0.40 N |
| Spring force at working travel | 2x0.80 N |
| **MECHANICAL DATA - Outer Conductor** | |
| Full travel | 5.00 mm |
| Working travel | 4.00 mm |
| Pre-loaded spring force | 1.50/3.00/4.00 N |
| Spring force at working travel | 4.00/6.00/8.00 N |
| **TOTAL SPRING FORCE** | |
| Total spring force by working travel | 5.60/ 7.60/ 9.60 N |
| **ELECTRICAL DATA** | |
| Impedance | 50 Ohm |
| Frequency range | up to 4 GHz |
| **TEST APPLICATION** | |
| Device under test (DUT) | PCB Contact - TriNeedle |
| **MATERIALS** | |
| Barrel | Brass, gold-plated |
| Plunger | CuBe, gold-plated |
| Probe tips | Steel, gold-plated |
| **AVAILABLE SCREW TOOLS** | |
| Article Designation | max. Tip Diameter |
| WFS 7840/G-8.0 | 8.0 |
| **CABLE DATA** | |
| Type | Multiflex 86 |
| Length | 750 mm |
| Connection test probe | MCX |
| Connection testing technology | SMA |



## PCB Contact


7840
ø4,4
ø4,46
ø4,5
ø4,7
ø4,0
2,0
31,5
5,5
12,9
44,0
SW4
SW3,5
ø6,0
ø0,4
ø0,5
4,5
2,25
1,0
2,0
connection for
MCX plug
H 7860
ø4,92
ø5,0
ø5,3
0,4
22,0
7840/G
ø5,5
M5x0,5
H 7860/GR
ø5,65
ø6,0
KK86MCX750SMA
SK7840.50-B
ø0,75
ø0,5
4,7
36,05
SK7840.50-C

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## HOW TO ORDER - Inner Conductor

| SK 7840.50 | - | B | - | Au | - | 0.5 |
|---|---|---|---|---|---|---|
| 1 | | 2 | | 3 | | 4 |

1. Series 2. Tip Style 3. Tip Plating
4. Tip Diameter

## HOW TO ORDER - Complete Test Probe

| 7840/ | G | - | Z51 | B | - | 5.6 N | - | Au | - | 6.0 | /0.5 | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | 3 | 4 | | 5 | | 6 | | 7 | 8 | 9 |

1. Series 2. Variant Threaded Design 3. Outer Conductor Tip
4. Inner Conductor Tip 5. Total Spring Force
6. Tip Plating 7. Outer Tip Diameter 8. Inner Tip Diameter
9. Tip Material (only for CuBe)