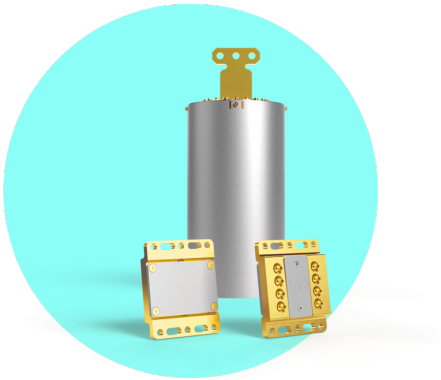
Datasheet, YQ-QP-8A
8 RF-Port Sample Box

Key Features – Sample Box 8-RF

- 8 RF-ports (SMP)
- Compact, fully light-tight chip enclosure with magnetic shielding
- RF-PCB with a 10×10 mm chip cutout, and optimized for a 500 µm chip thickness
- Low-loss, low-crosstalk 2-layer RF-PCB
- Non-magnetic components only (PCB, connectors, etc.)
- Sample box resonance frequencies above 15 GHz
- Optional: Nickle-free gold plating of copper part



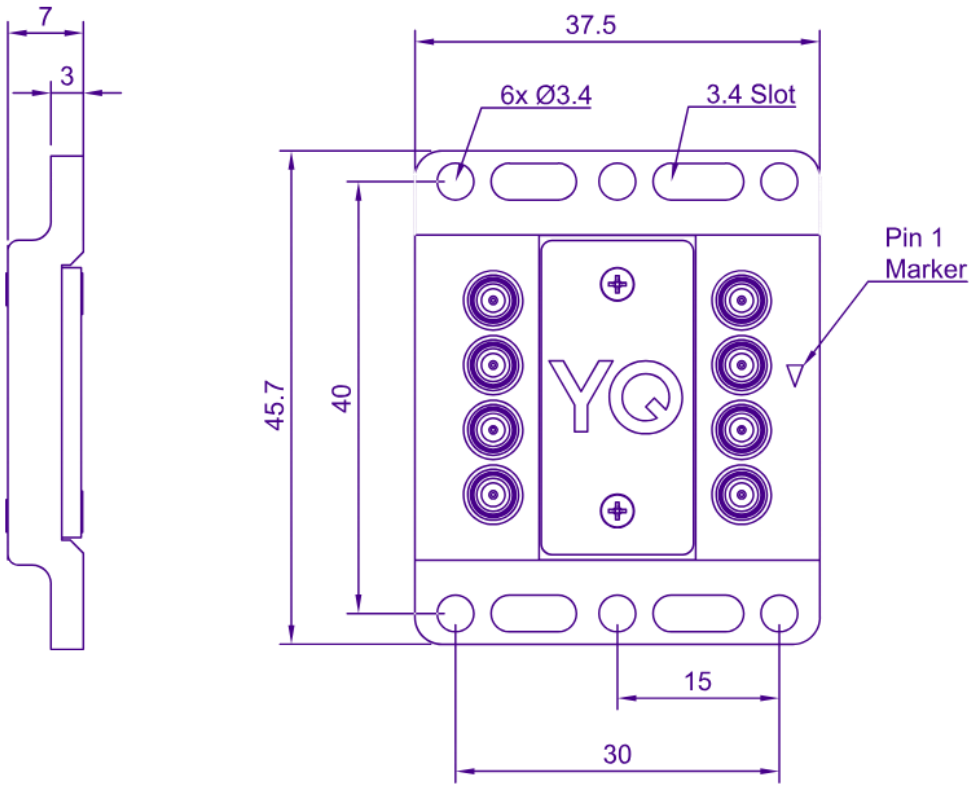
Quantum Device Packaging
Sample Box with RF-PCB

Typical Performance

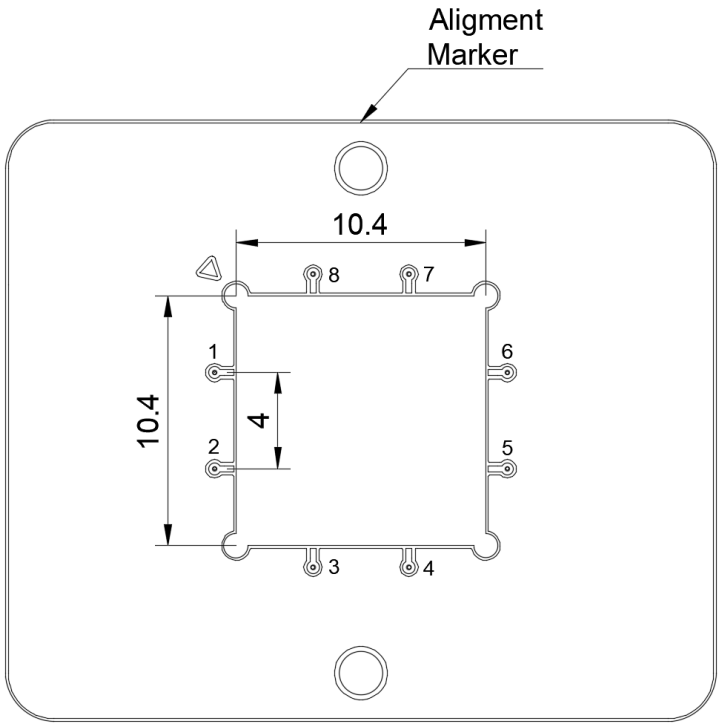
RF frequency	DC - 12 GHz
PCB insertion loss	< 0.5 dB
PCB return loss	> 14.0 dB

PCB crosstalk	< -60.0 dB
Box mode freq.	> 15.0 GHz
Sample size	10.2 x 10.2 mm

Drawing Sample Box [mm]



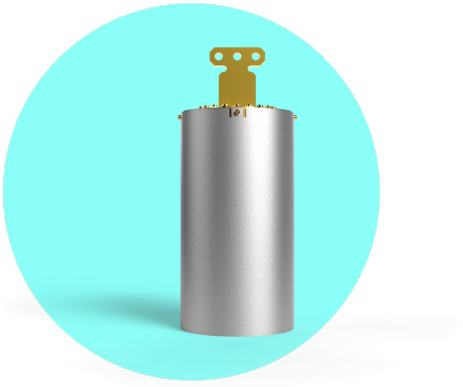
Drawing RF-PCB & Sample Cutout [mm]



Datasheet, YQ-QP-8A
8 RF-Port Sample Box

Key Features – Cold Finger & Shielding

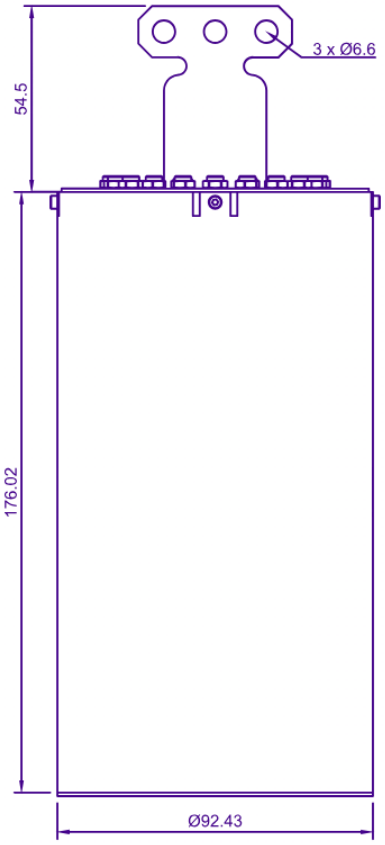
- 20 RF-ports with SMP connectors
- Fully light-tight cable feedthroughs
- Mu-metal and Aluminum shields (with flange)
- Direct thermalization using OFHC copper parts
- Coldfinger mounting brackets for different cryostats available
- Possibility to host 1 x 20-port sample box or 2 x 8-port sample boxes
- Optional: Nickle-free gold plating of all copper parts



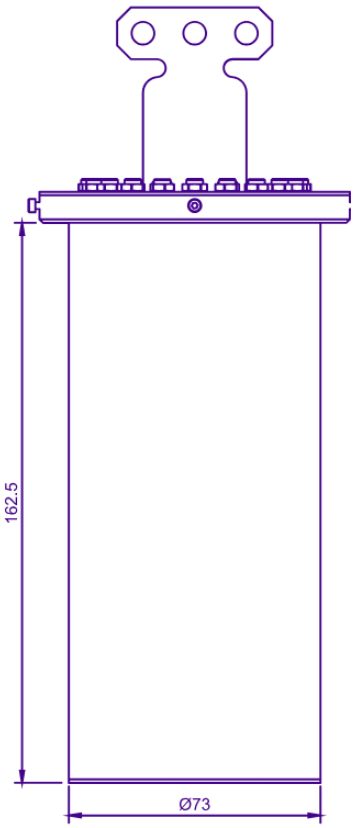
Quantum Device Packaging
Coldfinger & Shielding

Drawing Coldfinger & Shielding [mm]

Mu-Metal Shield (A4K, 0.04'')



SC-Shield (Al. 1050)



Coldfinger