

Datasheet, YQ-QP-20A

20 RF-Port Sample Box

Key Features – Sample Box 20-RF

- 20 RF-ports (SMP)
- Fully light-tight chip enclosure with magnetic shielding
- RF-PCB with a 10×10 mm chip cutout
- Low-loss, low-crosstalk 4-layer RF-PCB
- Non-magnetic components only
- Sample box resonance frequencies above 15 GHz
- Optional: Nickle-free gold plating of all copper parts



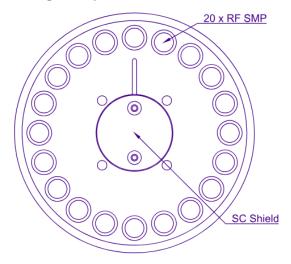
Quantum Device Packaging Sample Box with RF-PCB

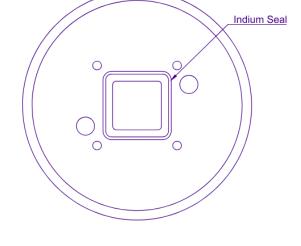
Typical Performance

RF frequency	DC - 12 GHz
PCB insertion loss	< 1.0 dB
PCB return loss	> 15.0 dB

PCB crosstalk	< -52.0 dB
Box mode freq.	> 15.0 GHz
Sample size	10.0 x 10.0 mm

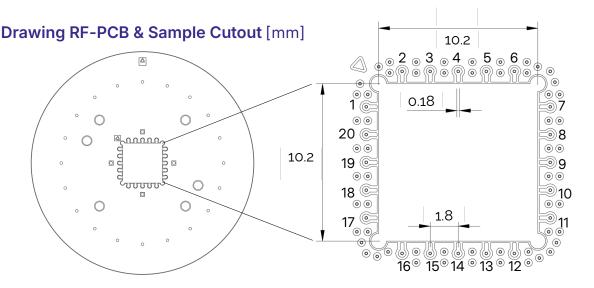
Drawing Sample Box [mm]





Top Sample Holder (Copper C101)

Bottom Al. Cover (Al. 1050)





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Key Features – Cold Finger & Shielding

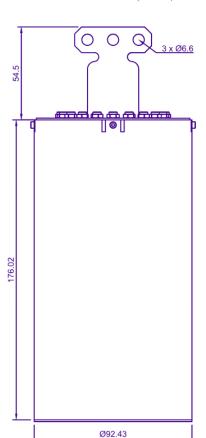
- 20 RF-ports with SMP connectors
- Fully light-tight cable feedthroughs
- Mu-metal and Aluminum shields (with flange)
- Direct thermalization using OFHC copper parts
- Coldfinger mounting brackets for different cryostats available
- Possibility to host 1 x 20-port sample box or 2 x 8port sample boxes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



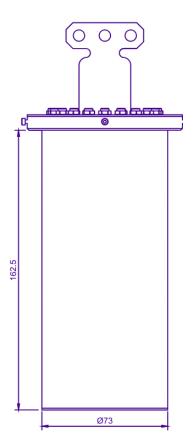
Quantum Device Packaging Coldfinger & Shielding

Drawing Coldfinger & Shielding [mm]

Mu-Metal Shield (A4K, 0.04")



SC-Shield (Al. 1050)



Coldfinger

