

QMC-CRYOBRD Accessories



Dilution Refrigerator Breadboard Sample Measurement System Accessories Catalog

Shielding

- Spare CRYOBRD-01/03 model
Copper infrared shield with
Stycast/SiC infrared coating
- Spare CRYOBRD-02/04 model
Copper infrared shield with
Stycast/SiC infrared coating
- Spare CRYOBRD-01/03 model
Copper infrared shield
- Spare CRYOBRD-02/04 model
Copper infrared shield
- Spare 6061 Aluminum
Superconducting Shield machined
from a solid piece
- Spare Amuneal A4K 0.04" Mu-metal
magnetic shield



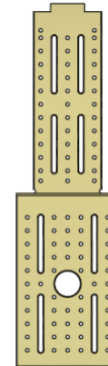
QMC-CRYOBRD Accessories



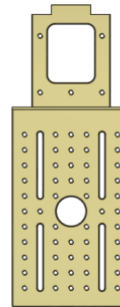
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QMC-CRYOBRD Breadboard Conversion Option

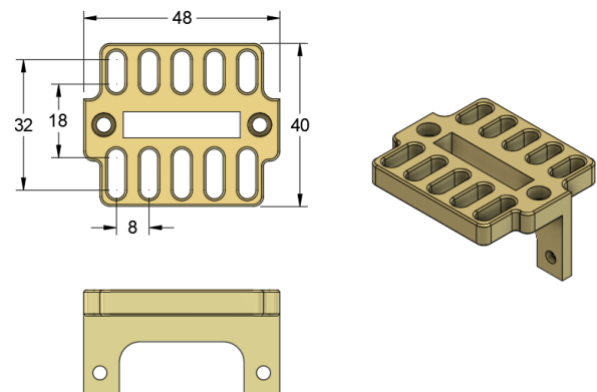
- Convert any QMC-CRYOBRD-01XX/02XX short version to long neck version QMC-CRYOBRD-03XX/04XX by replacing the interchangeable breadboard.
- Convert any QMC-CRYOBRD-03XX/04XX long neck version to short version QMC-CRYOBRD-01XX/02XX by replacing the interchangeable breadboard. The shorter version is designed to fit in smaller dilution refrigerators where distance between mixing-chamber flange and still shield is small.
- QMC-CRYOBRD mounting flange designed to work with the mixing chamber plate and 8mm spacing hole pattern of the smaller Bluefors-SD model dilution refrigerators.



QMC-CRYOBRD Long neck breadboard



QMC-CRYOBRD Short neck breadboard



QMC-CRYOBRD Small mounting bracket for smaller
Bluefors SD series dilution fridge

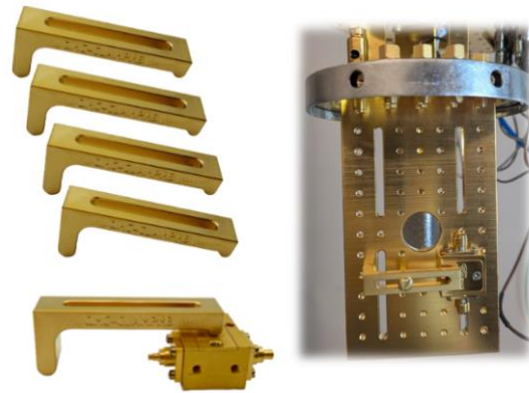
QMC-CRYOBRD Accessories



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Breadboard Clamp

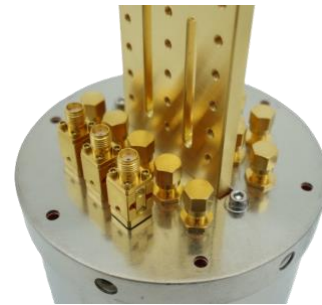
- Cryogenic compatible clamp (QMC-CLAMPM3) for mounting components up to ½ inch thick
- Clamp great for times when mounting components which have incompatible screw threads or incorrect hole positions.
- Each set includes 4 clamps and 4 brass metric M3 screws and washers.
- Completely non-magnetic
- Durable nickel free 30 microinches hard gold plating
- Each set includes 4 clamps & 4 brass metric M3 screws and washers.



QMC-CRYOBRD Mounting Clamps
Order # QMC-CLAMPM3

Cryogenic Attenuator Feed-thru

- SMA feed-thrus can be replaced with QMC bulkhead cryogenic attenuators in dB (0, 3, 6, 10, 20, 30) QMC-CRYOATTF-XXBLK



QMC-CRYOATTF-XXBLK
Attenuator feed-thru
Order # QMC-CRYOATTF-XXBLK

Infrared Filter Feed-thru

- SMA feed-thrus can be replaced with QMC high and low cutoff frequency Infrared bulkhead filters (QMC-CRYOIRF-001, QMC-CRYOIRF-002, QMC-CRYOIRF-003, or QMC-CRYOIRF-004)



QMC-CRYOIRF-XXX
Infrared filter feed-thru
Order # QMC-CRYOIRF-XXX

QMC-CRYOBRD Accessories



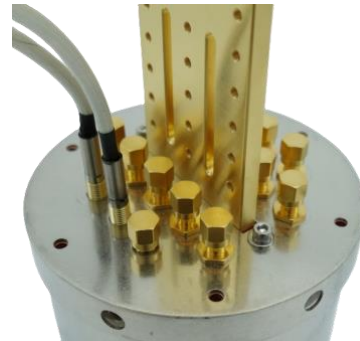
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LEMO DC Feed-thru with wire (4-pin)

- LEMO DC feed-thru with wire which puts a 4-pin LEMO connector in a 1/4-36 feed-thru port (QMC-CAB-LEMO).
- SMA cap (QMC-CRYOCAP) can be used on DC feed-thru port for RF shielding of unused port.



4-pin DC feed-thru



4-pin DC feed-thru (top view)
Order # QMC-CAB-LEMO



4-pin DC feed-thru (bottom view)

LEMO DC Feed-thru (4-pin)

- LEMO DC feed-thru which puts a 4-pin LEMO connector in a 1/4-36 feed-thru port (QMC-CRYOBRD-LEMO).
- SMA cap (QMC-CRYOCAP) can be used on DC feed-thru port for RF shielding of unused port.



4-pin LEMO DC feed-thru
Order # QMC-CRYOBRD-LEMO.

QMC-CRYOBRD Accessories



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Spare SMA shielding cap

- SMA cap (QMC-CRYOCAP) can be used on DC feed-thru port for RF shielding of unused port.
- Non-magnetic



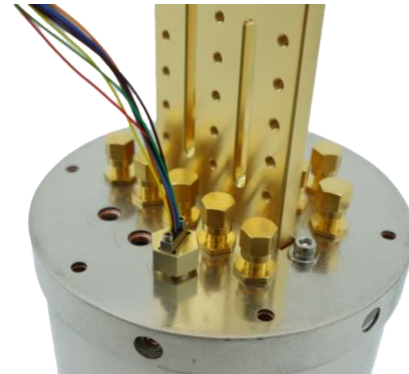
Spare non-magnetic SMA cap
Order # QMC-CRYOCAP

DC Feed-thru (9-pin)

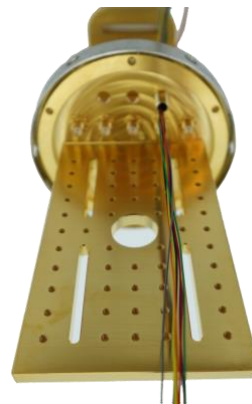
- DC feed-thru which puts a 9-pin Omnetics nanoD connector in a 1/4-36 feed-thru port.



9-pin Omnetics
nanoD DC feed-thru



9-pin nanoD DC feed-thru
(top view)
Order # QMC-NANO9M-DCFT



9-pin nanoD DC feed-thru
(bottom view)

SMP Feed-thru

- SMA feed-thrus can be replaced with non-magnetic SMP Male feed-thru (QMC-CRYOCON-BLKMSMP) that threads into the standard SMA 1/4-36 threaded holes in the QMC-CRYOBRD.



SMP Male feed-thru

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