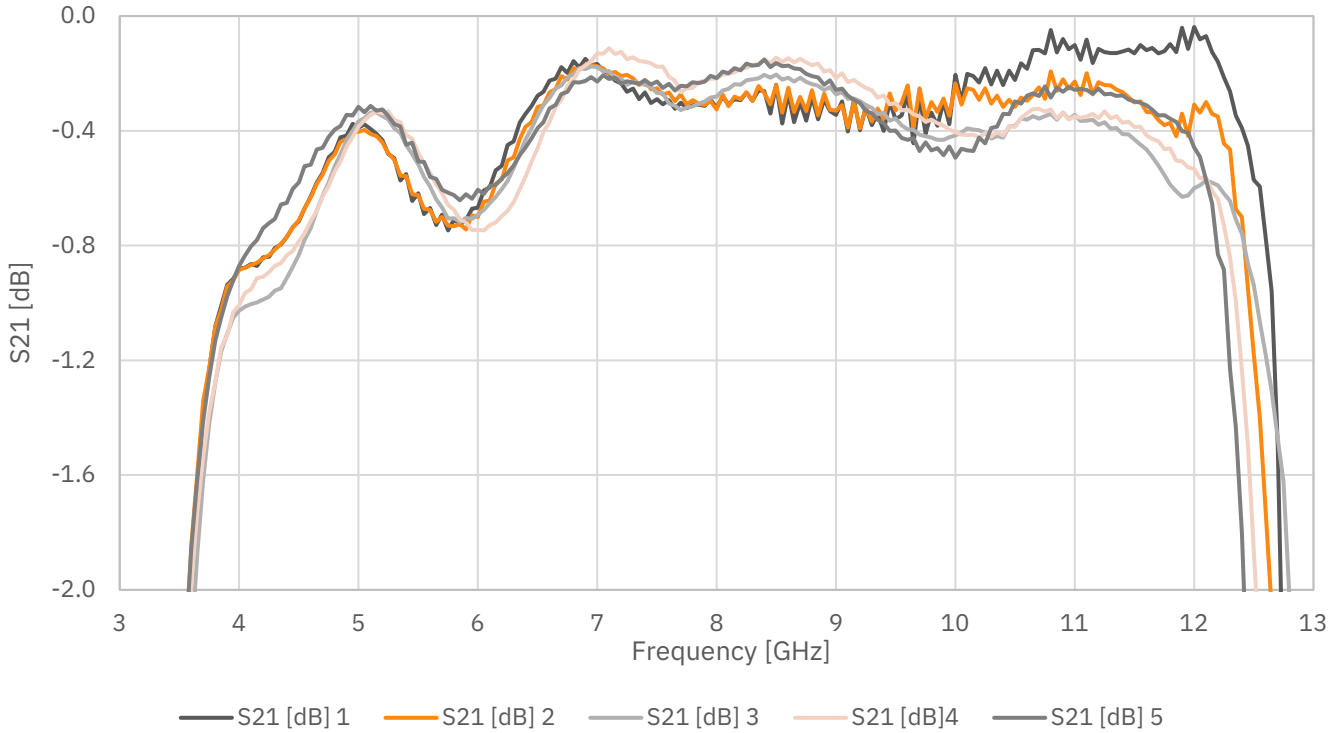


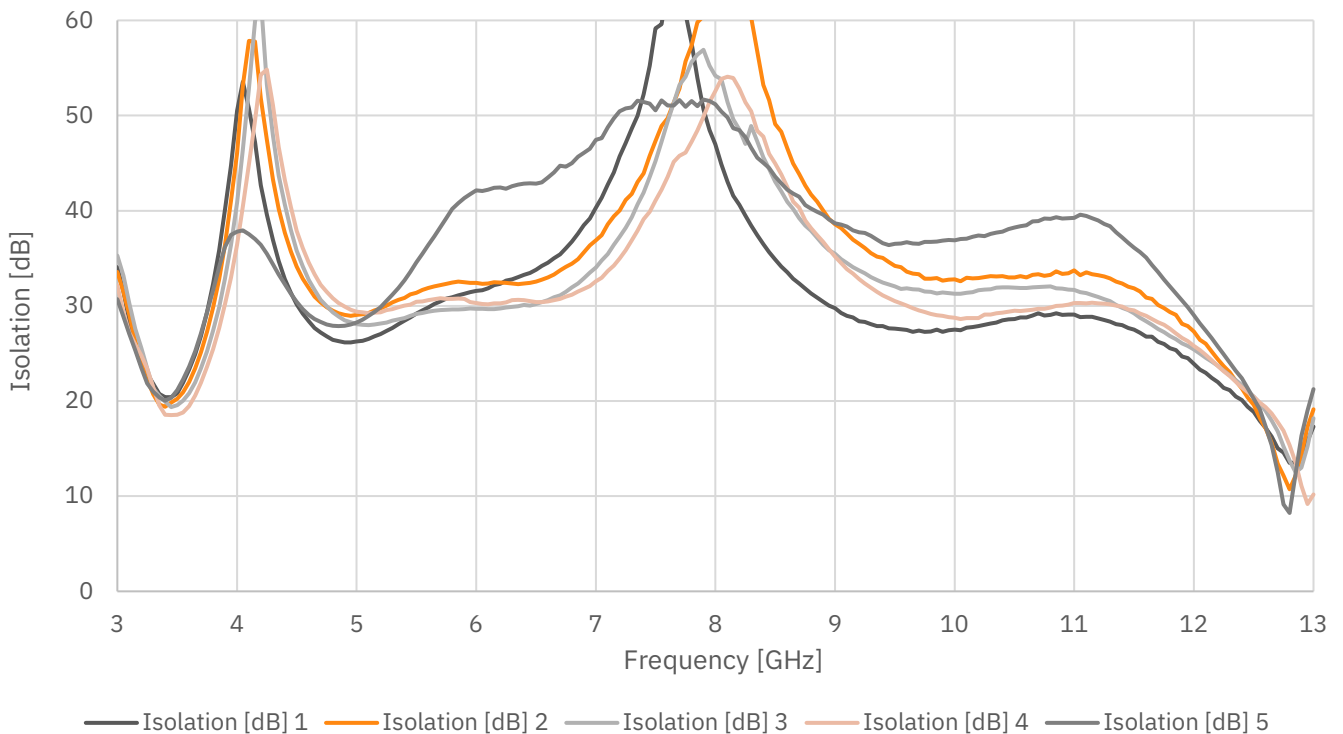


Measured data,  $T_{amb} = 77\text{ K}$

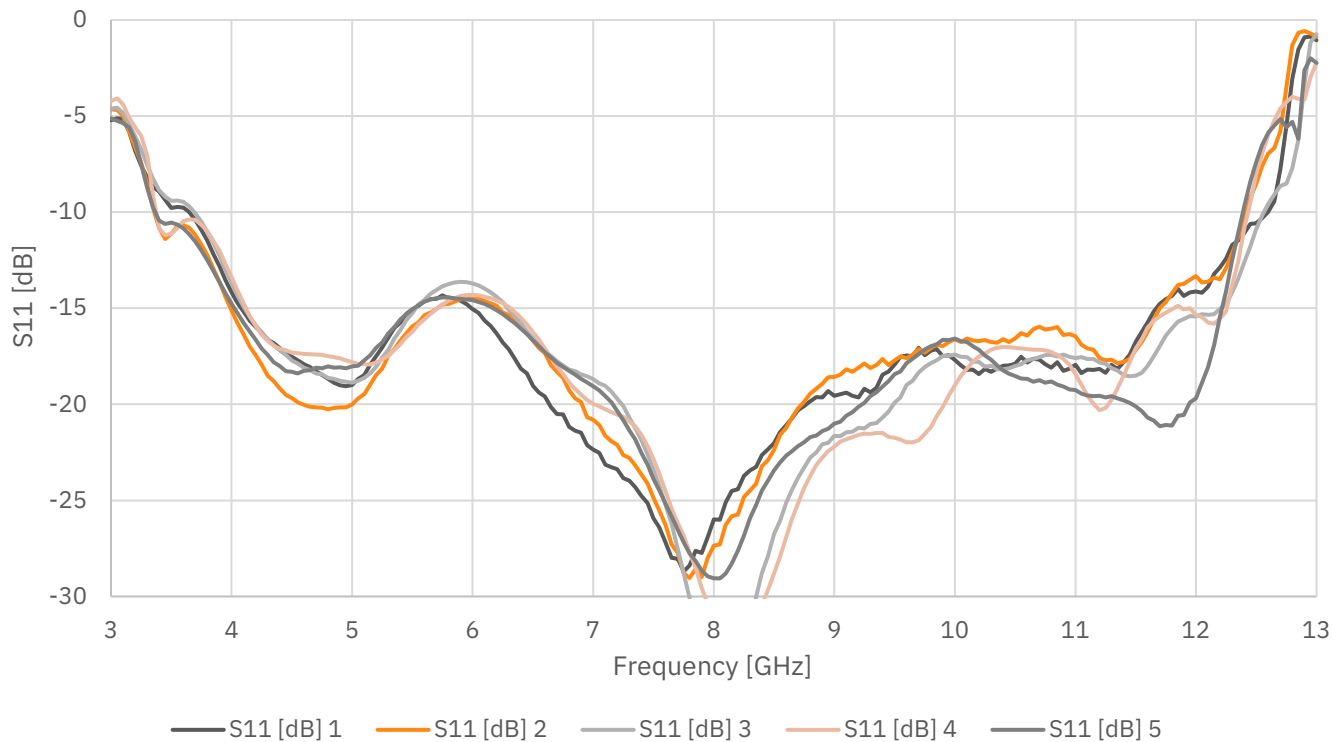
Insertion Loss of 5 Units at 77 K



Isolation of 5 Units at 77 K



### Port Match of 5 Units at 77 K

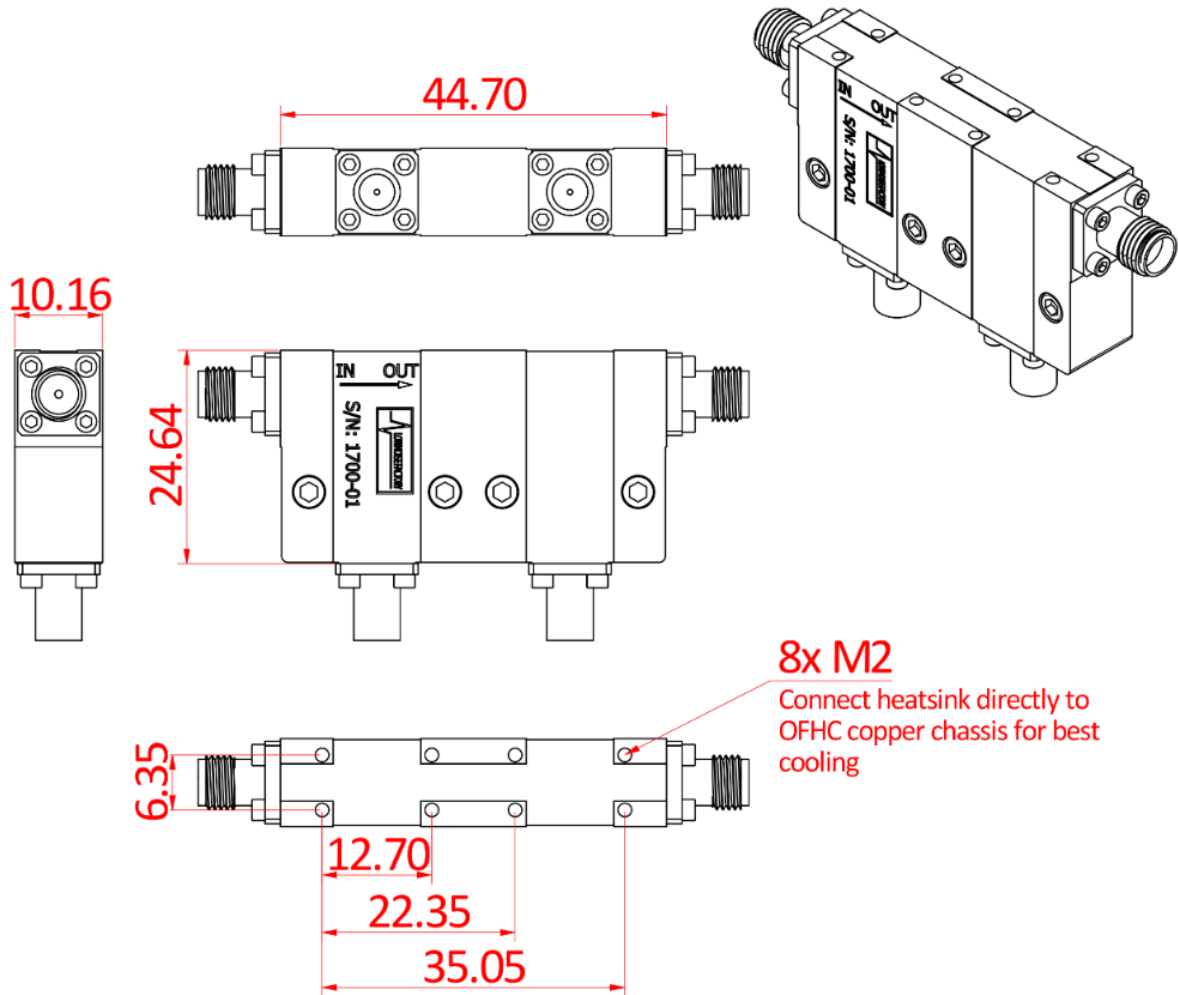


Insertion loss improves slightly when cooled to 5 K and 10 mK, port match and isolation remain the same.



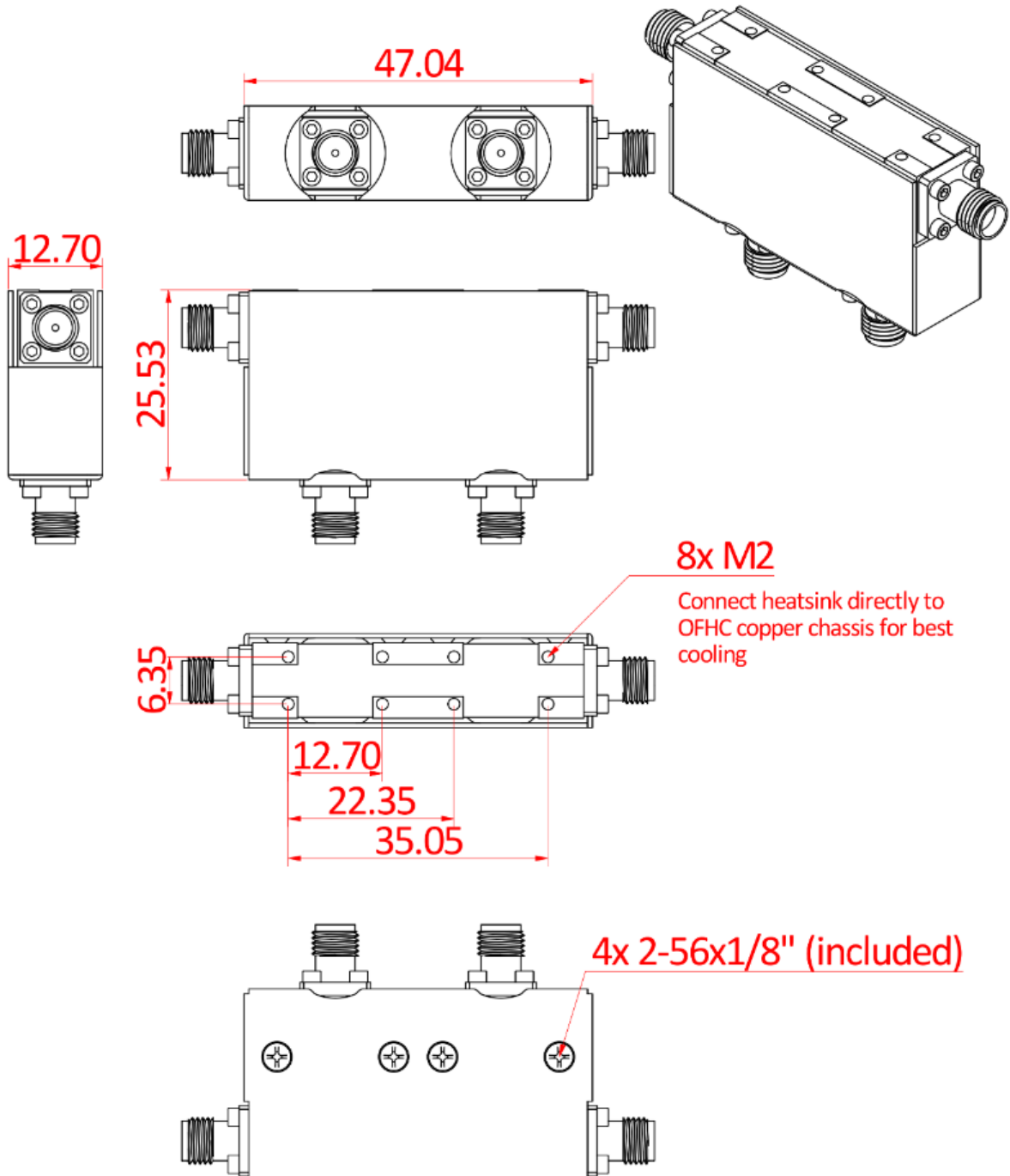
## Dimensions without additional shielding

Units: mm

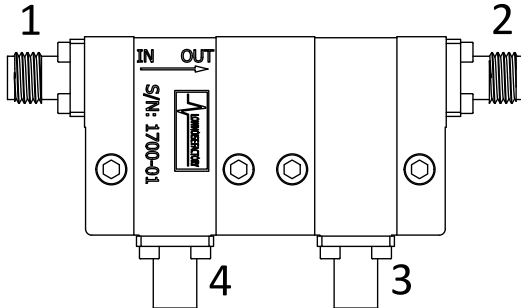


## Dimensions with additional shielding

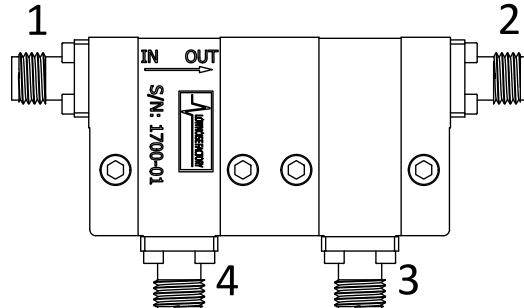
Units: mm



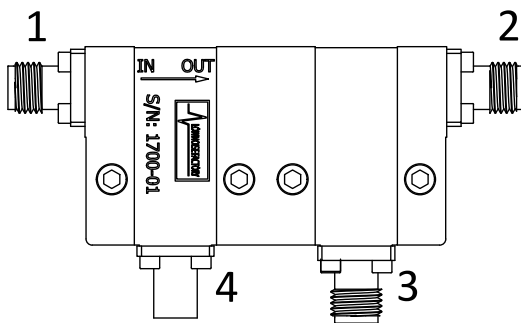
## Model numbering



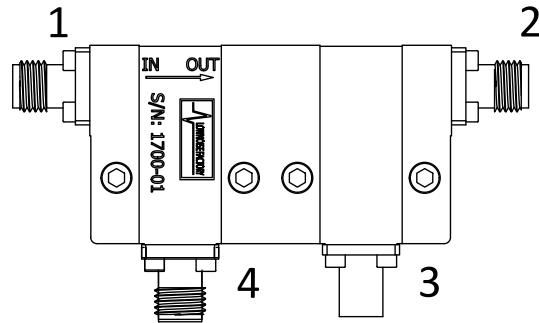
**LNF-ISISC4\_12A**  
Dual Junction Isolator  
Port 1: Female SMA  
Port 2: Female SMA  
Port 3: Termination  
Port 4: Termination



**LNF-CICIC4\_12A**  
Dual Junction Circulator  
Port 1: Female SMA  
Port 2: Female SMA  
Port 3: Female SMA  
Port 4: Female SMA



**LNF-ISCIC4\_12A**  
Dual Junction Isolator-Circulator  
Port 1: Female SMA  
Port 2: Female SMA  
Port 3: Female SMA  
Port 4: Termination



**LNF-CIISC4\_12A**  
Dual Junction Circulator-Isolator  
Port 1: Female SMA  
Port 2: Female SMA  
Port 3: Termination  
Port 4: Female SMA

Version	Model number
Dual Isolator	LNF-ISISC4_12A
Dual Circulator	LNF-CICIC4_12A
Isolator-Circulator	LNF-ISCIC4_12A
Circulator-Isolator	LNF-CIISC4_12A
Extra shield	LNF-SHIELD4_8_DJ *

\* LNF-xxxxC4\_8A and LNF-xxxxC4\_12A share the same chassis dimensions and hence also the same extra shield.

**Date**  
2022-05-02

**Datasheet**  
LNF-xxxxC4\_12A  
4-12 GHz Cryogenic Dual Junction Isolator or Circulator



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Array

\* Consult with factory for array options.