

The TBRFH3 series of RF housings are ideal for prototyping RF building blocks such as power splitters, directional couplers, mixers, etc. The housings are milled from aluminium and equipped with N-female connectors.

The TBRFH4 housing is ideal for RF building blocks such as amplifiers or similar. The housing is milled from aluminium and equipped with SMA-female connectors and a feed through capacitor for the power supply line.



TBRFH3 - 5527



TBRFH3 - 5555



TBRFH4



TBRFH4, interior

#### 1 Technical data

Part #	Outer dimensions [mm]	inner dimensions [mm]	Material	Surface finishing	RF connectors	detail	Weight [g]
TBRFH3-5527	55 x 27,5 x 21,5	45 x 14,5 x 11,5	Alu A6061	brushed, linear	N-Female	-	130
TBRFH3-5555	55 x 55 x 21,5	45 x 45 x 11,5	Alu A6061	brushed, linear	N-Female	-	185
TBRFH4	48 x 76 x 12	40,2 x 67,7 x 6.5	Alu A6061	sandblasted	SMA-Female	Feed through capacitor, 10nF, 50V	

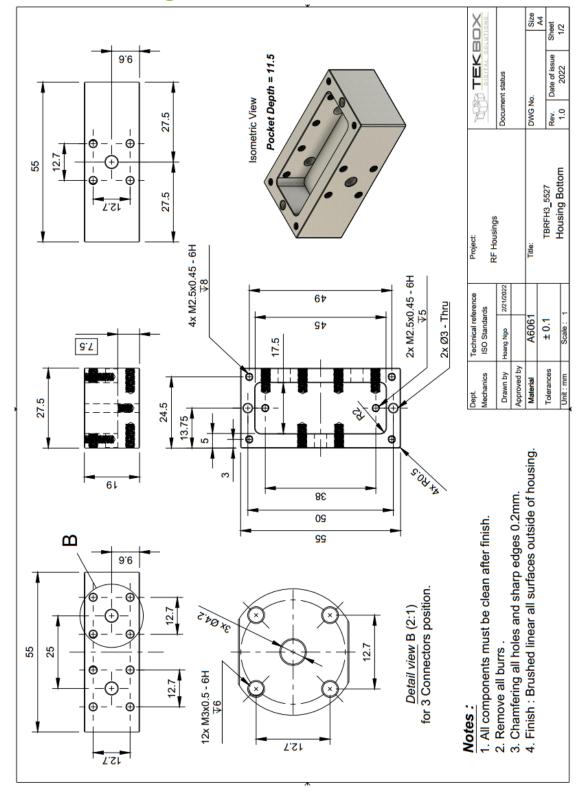
#### 2 Customization

Contact us, if you need customized housings. Following details can be customized, depending on ordering volume:

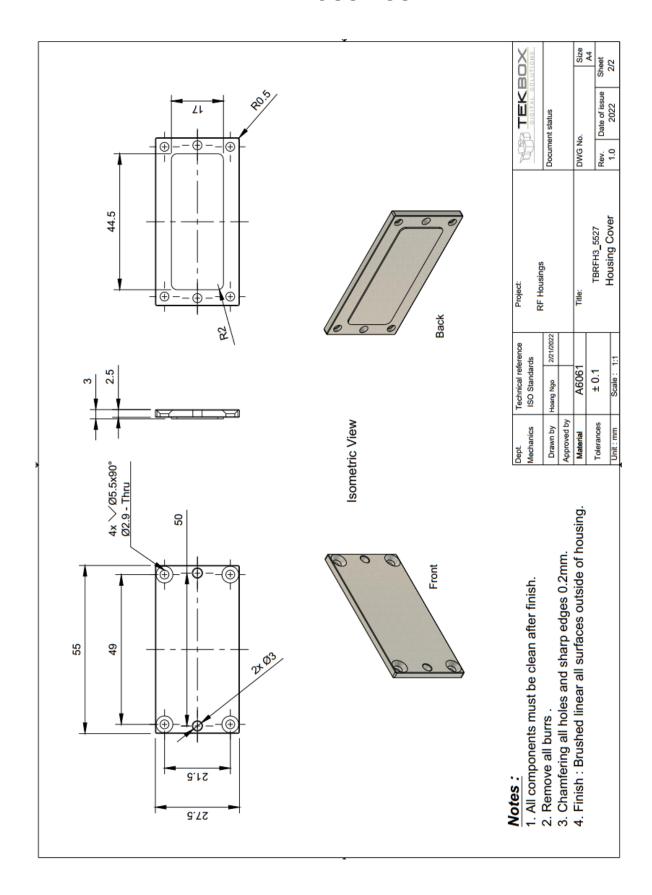
- RF connectors
- Absorbing foam
- Position and number of feed-through capacitors
- Laser engraving
- Surface finishing



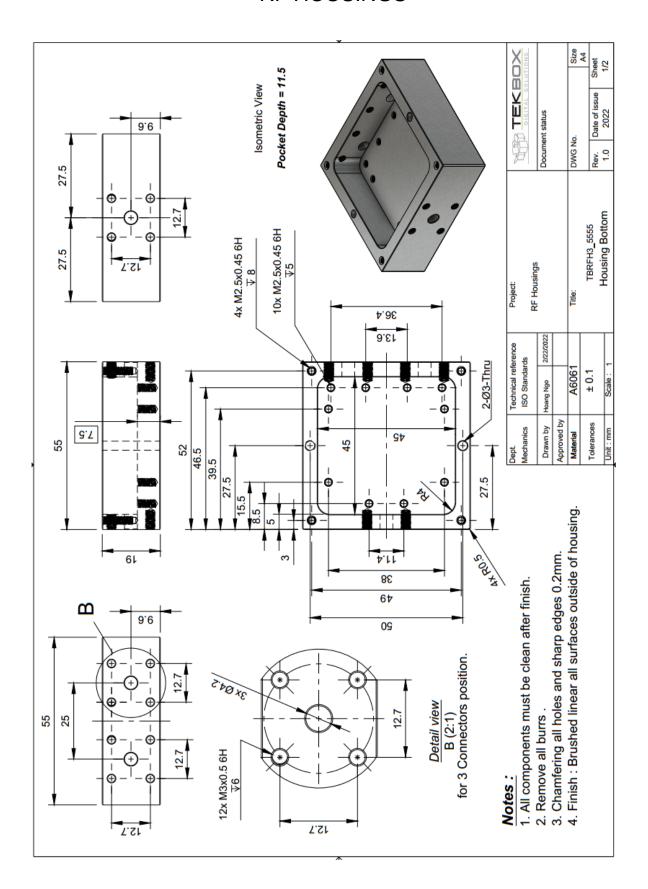
# 3 Mechanical drawings



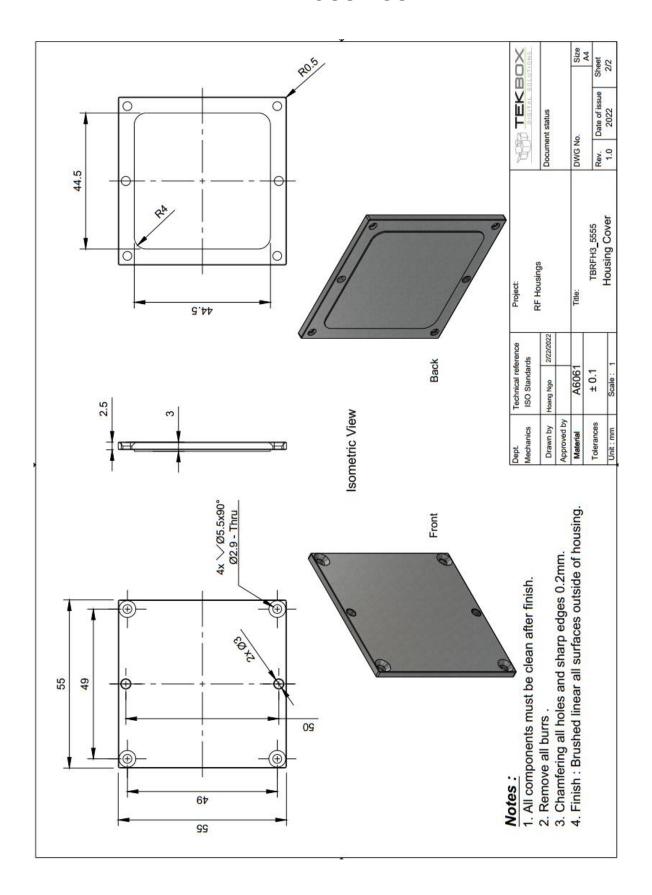




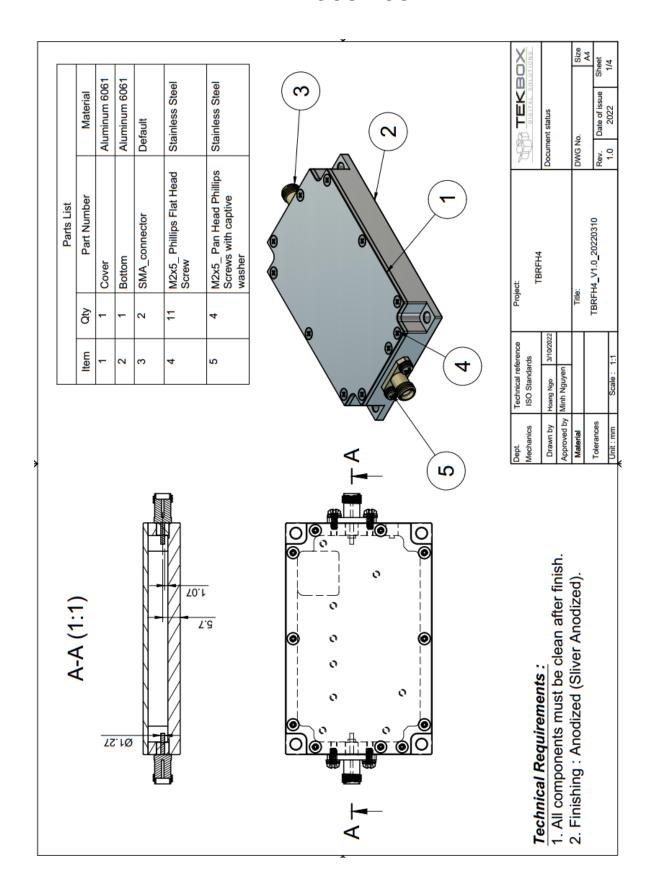




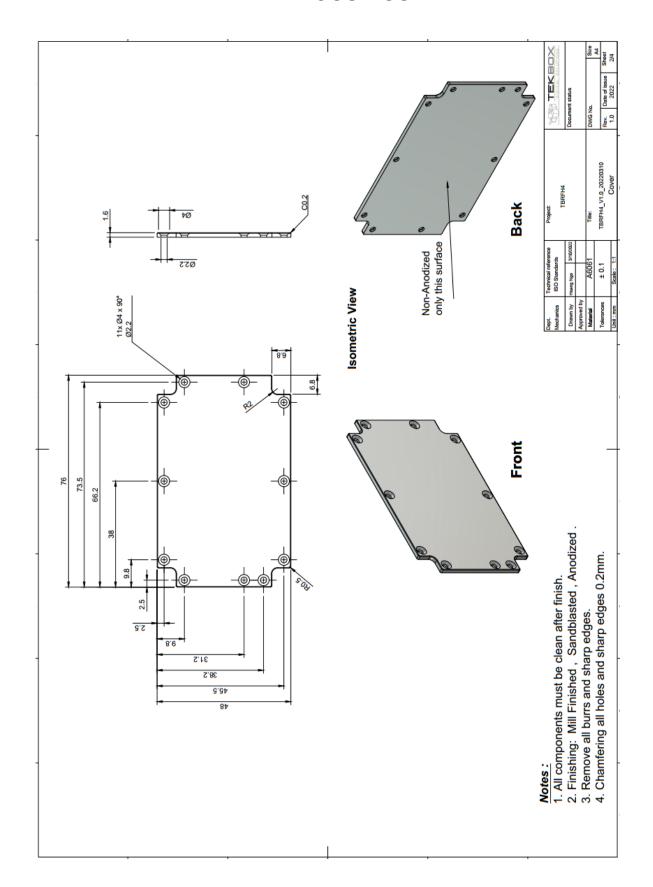




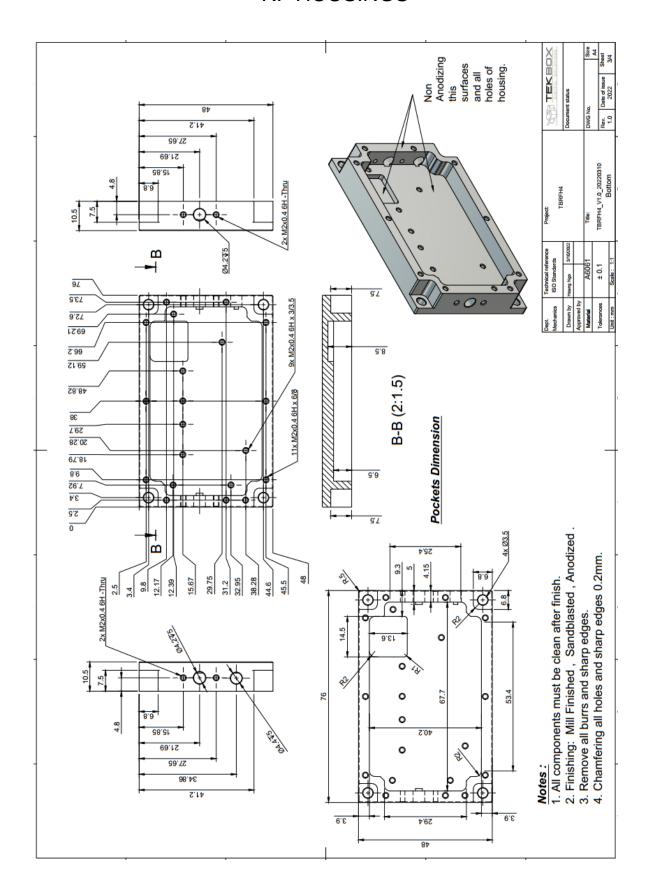








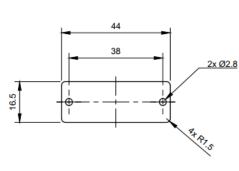


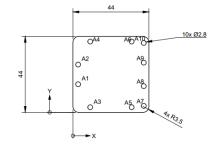




\*Recommended PCB Dimension PCB thickness: 1.2mm

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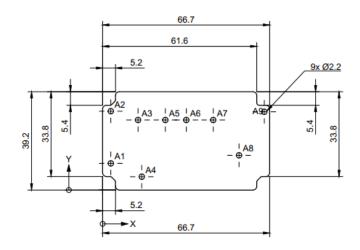


A10	41	40.2		
A9	41	28.8		
A8	41	15.2		
A7	41	3.8		
A6	34	41		
A5	34	3		
A4	10	41		
A3	10	3		
A2	3	27.7		
A1	3	16.3		
Hole	X Dim	Y Dim		
Hole Table				

TBRFH3\_5527

TBRFH3\_5555

# \*Recommended PCB Dimension PCB thickness : 1mm



A9	64.56	31.21
A8	54.47	13.85
A7	44.17	27.93
A6	33.42	27.93
A5	25.05	27.93
A4	15.63	5.32
A3	14.14	27.93
A2	3.27	31.43
A1	3.27	10.65
Hole X Dim		Y Dim
Hole Table		

TBRFH4



# 4 Ordering Information

Part Number	Description
TBRFH3-5527	55 x 27,5 x 21,5 mm RF housing, pre-assembled with N-female connectors
TBRFH3-5555	55 x 55 x 21,5 mm RF housing, pre-assembled with N-female connectors
TBRFH4	48 x 76 x 12 mm RF housing, pre-assembled with SMA-female connectors and feed through capacitor

#### 5 History

Version	Date	Author	Changes
V 1.0	10.6.2022	Mayerhofer	Creation of the document
V 1.1	07.02.2023	Minh Nguyen	Update drawing (Add Recommended PCB dimension)