

2x2, 3 dB hybrid coupler 7404.31.0001

Hybrid Coupler

Description

This hybrid coupler has been designed to meet the special needs of the wireless market. They are most commonly used to combine two wireless carriers in the band to a single antenna feed or distribution cable. This requires the termination of one output port in 50 Ohm and results in a 3 dB loss in each signal. In situations where two similar feeds are required, as required for an in-building application, both outputs may be used eliminating the need for a termination and the 3 dB loss. Isolation is maximized while passive intermodulation (PIM) is minimized.



Technical Data

Electrical Data

	Band 1	Band 2
Frequency	0.694 - 0.79 GHz	0.79 - 2.7 GHz
Return Loss	20.8 dB	20.8 dB
Coupling	3 dB	3 dB
Insertion Loss	3.05 dB	3.05 dB
Insertion Loss flatness	+/- 0.5 dB	0.4 dB
Isol. between Input ports	25 dB	25 dB
Isol. between Output ports	25 dB	25 dB
Max Power/input port	400 W	400 W
Peak Envelope Power	2000 W	2000 W
Intermodulation distortion	-161 dBc	-161 dBc
@ 2 x Carrier Power	43 dBm	43 dBm

	Input 1	Input 2
Port Designation	J1 IN	J2 IN
Connector Type	4.3-10	4.3-10
Gender	jack (female)	jack (female)

	Output 1	Output 2
Port Designation	J3 OUT	J4 OUT
Connector Type	4.3-10	4.3-10
Gender	jack (female)	jack (female)

Char. impedance 50 Ω

Mechanical Data

Dimensions 41 x 174.8 x 58.4 mm (Height x Width x Length)
Weight 1.1 kg

Environmental Data

Environmental conditions outdoor
Operation temperature -40 °C to 65 °C
IP rating IP67
2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant

Material Data

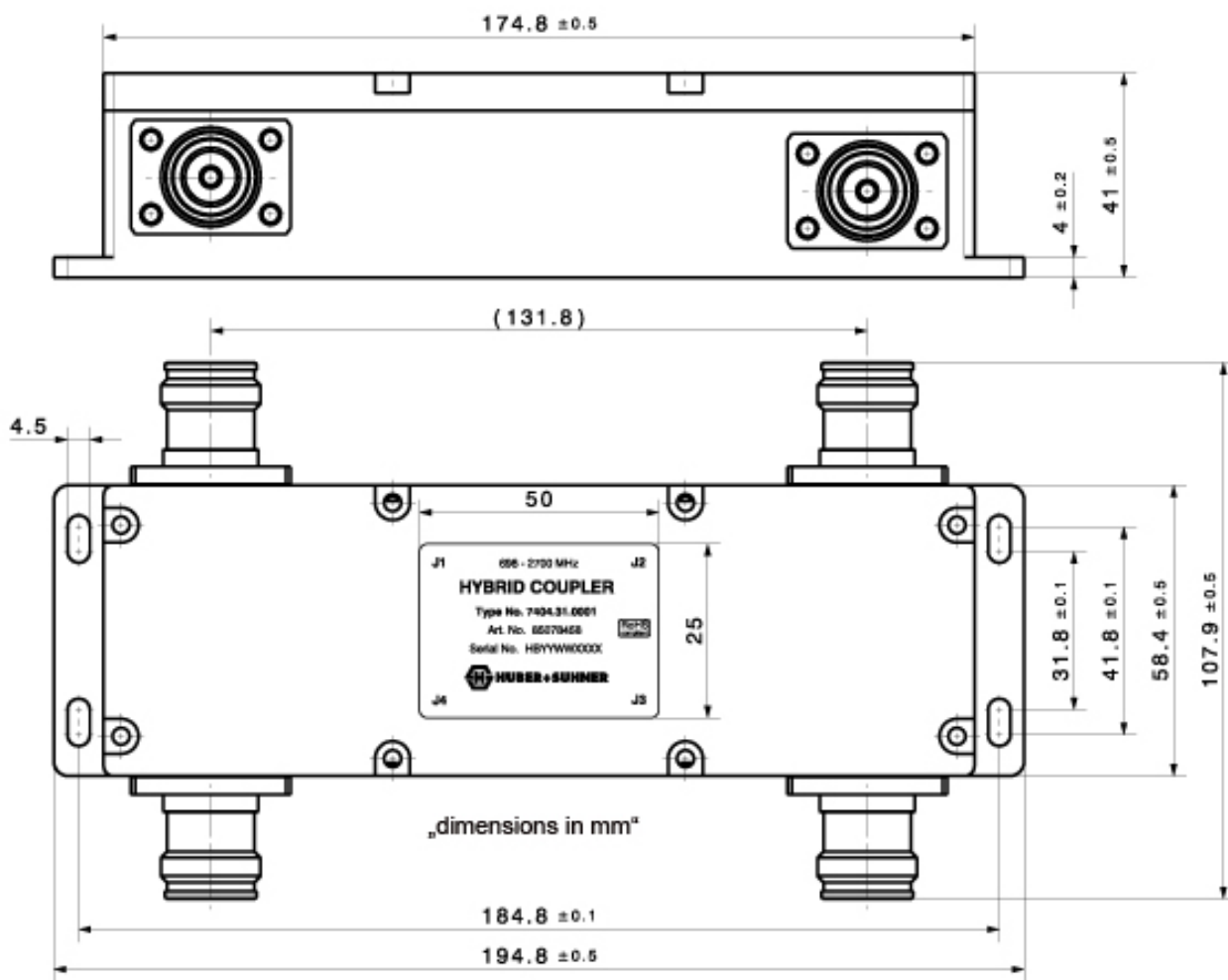
Housing Material Aluminium
Surface treatment Black paint

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Related Documents

Outline drawing

DOU-00320966



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