

3 dB Hybrid Coupler

7404.17.0003

Properties

- If both outputs cannot be used, the free port must be closed on a termination (termination with 3dB power dissipation)
- 30 dB isolation between the individual input and output ports
- -161 dBc PIM @ 2x43 dBm
- N female interfaces
- Meets EN 50155: 2007 (class T1)
- 90° Quadrature hybrid coupler



Ports		
Port designation	Interface	Gender
Input 1, J1	N	jack (female)
Input 2, J2	N	jack (female)
Output 1, J3	N	jack (female)
Output 2, J4	N	jack (female)

Electrical bands	
	Band 1
Frequency range	0.694 GHz ... 2.7GHz
Return loss	> 20 dB
Insertion loss	0.2 dB
Coupling	3 dB
Coupling flatness	+/- 0.4 dB
Isol. between input ports	30 dB
Isol. between output ports	30 dB
Composit power max	80 W
Peak envelope power	1500 W
Intermodulation distortion	< -161 dBc
@ 2 x carrier power	43 dBm

3 dB Hybrid Coupler

7404.17.0003

Electrical Data (impedance)	
Characteristic impedance	50 Ω

Mechanical data	
Weight	0.644 kg
Width	44 mm
Height	25 mm
Depth	132 mm
Housing material and surface treatment	Aluminium / Passivated

Environmental data	
Environment (application)	Indoor
Operation temperature	-35 °C ... 65 °C
Storage temperature	-35 °C ... 65 °C
Transport temperature	-35 °C ... 65 °C
Ingress protection (IP Rating)	IP64

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.

DOCUMENT PIM-P1438 / Date of publication: 23.05.2025 / uncontrolled copy