

3x3, 4.8 dB hybrid coupler 7406.17.0002

Hybrid Coupler

Description

A 3x3 hybrid combiner is a network which combines up to three inputs. In DAS applications, all three outputs may be used to feed different cables, essentially providing lossless combining. Any unused ports must be terminated in 50 Ohm at the appropriate power rating. This network is an important building block in combining boxes used in neutral host in-building DAS.



Technical Data

Electrical Data

	Band 1	Band 2	Band 3
Frequency	0.694 - 800 GHz	0.8 - 2.5 GHz	2.5 - 2.7 GHz
Return Loss	20 dB	20 dB	19 dB
Coupling	4.8 dB	4.8 dB	4.8 dB
Insertion Loss	0.2 dB	0.2 dB	0.2 dB
Insertion Loss flatness	+/- 1.3 dB	1 dB	1.3 dB
Isol. between Input ports	25 dB	25 dB	23 dB
Isol. between Output ports	25 dB	25 dB	23 dB
Max Power/input port	150 W	150 W	150 W
Peak Envelope Power	3000 W	3000 W	3000 W
Intermodulation distortion	-161 dBc	-161 dBc	-161 dBc
@ 2 x Carrier Power	43 dBm	43 dBm	43 dBm

	Input 1	Input 2	Input 3
Port Designation	Input 1	Input 2	Input 3
Connector Type	N	N	N
Gender	jack (female)	jack (female)	jack (female)

	Output 1	Output 2	Output 3
Port Designation	Output 1	Output 2	Output 3
Connector Type	N	N	N
Gender	jack (female)	jack (female)	jack (female)

Char. impedance 50 Ω

Mechanical Data

Dimensions 37.6 x 81.4 x 173.9 mm (Height x Width x Length)
Weight 1.1 kg

Environmental Data

Environmental conditions indoor
Operation temperature -35 °C to 65 °C
Storage temperature -35 °C to 65 °C
Transport temperature -35 °C to 65 °C
IP rating IP64
2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant

Material Data

Housing Material Aluminium

3x3, 4.8 dB hybrid coupler 7406.17.0002

Surface treatment

passivated

Related Documents

Outline drawing
3D-model (Step)

DOU-00287340
DOC-0000687348

