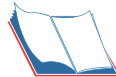
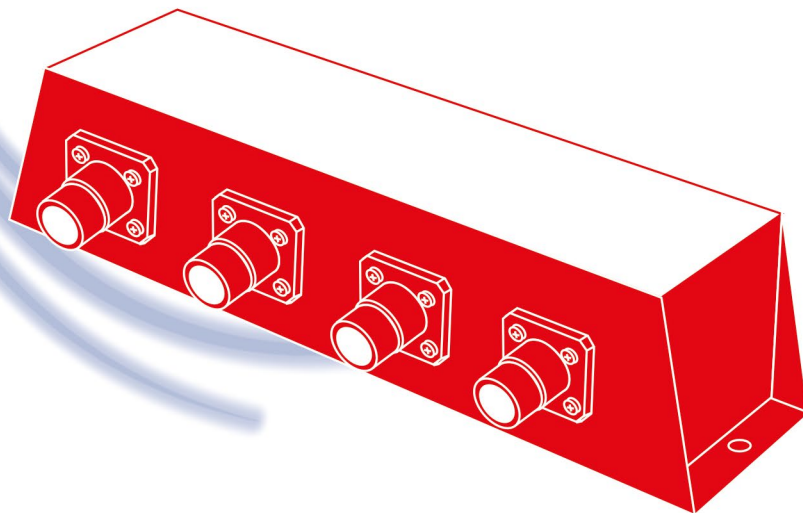


PMR COMBINERS

COUPLERS & DUPLLEXERS



=> [Search by Part Number](#)



- ⇒ To combine multiple transmitters on single antenna
- ⇒ Robust Stripline Construction
- ⇒ High Directivity

110-150 MHz	8 Ways Power Splitter	3	380-470 MHz	2 Ways Splitter	14
118-137 MHz	Hybrid Coupler	4	380-470 MHz	3 Ways Splitter	15
118-144 MHz	4 Ways Combiner	5	380-470 MHz	4 Ways Splitter	16
146-174 MHz	Hybrid Coupler	6	380-470 MHz	6 Ways Splitter	17
146-174 MHz	2 Ways Splitter	7	380-470 MHz	3-8 Ways Combiner	18
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200-350 MHz	Dual Band Combiner	10	380-520 MHz	Duplexer	21
225-400 MHz	Hybrid Coupler	11	380-520 MHz	Tetra Duplexer	22
225-400 MHz	4 Ways Combiner	12	380-520 MHz	PMR TX Combiner	23
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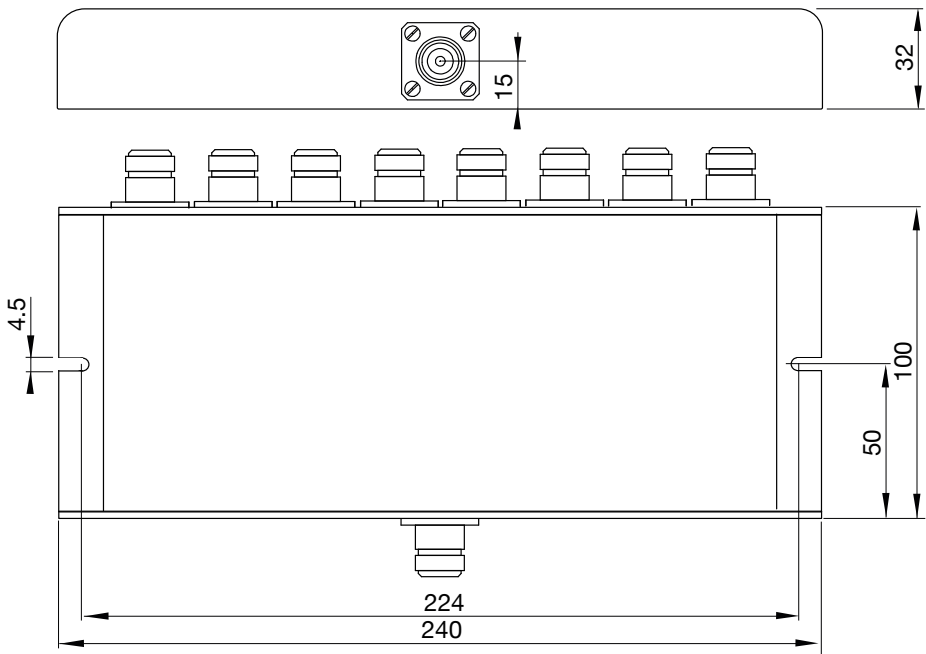
110-150 MHz 8 Ways Power Splitter



PMR Combiners Couplers & Duplexers



Frequency	110 - 150 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Average power	10 W
Connectors	N female



Dimensions in mm

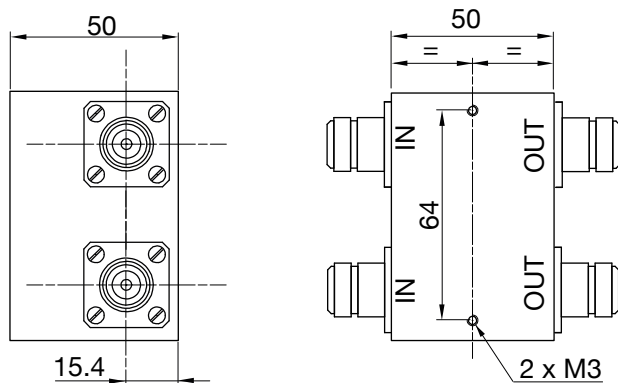
[Return to Search by Part Number](#)

P/N (Nf)	Splitting loss (dB)	Insertion loss (dB)	Isolation (dB)	Max VSWR
DP-1115-8N	9	0.5	< 18	1.20

118-137 MHz Hybrid Coupler



Frequency	118-137 MHz
Impedance	50 Ω
Temperature range	- 10 to + 60°C
Average power	2 x 100 W
Weight	370 gr



Dimensions in mm

[Return to Search by Part Number](#)

P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CHS-1114-N	3 $\pm$ 0.3	$\geq$ 23	<1.2	N f

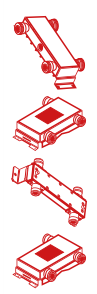




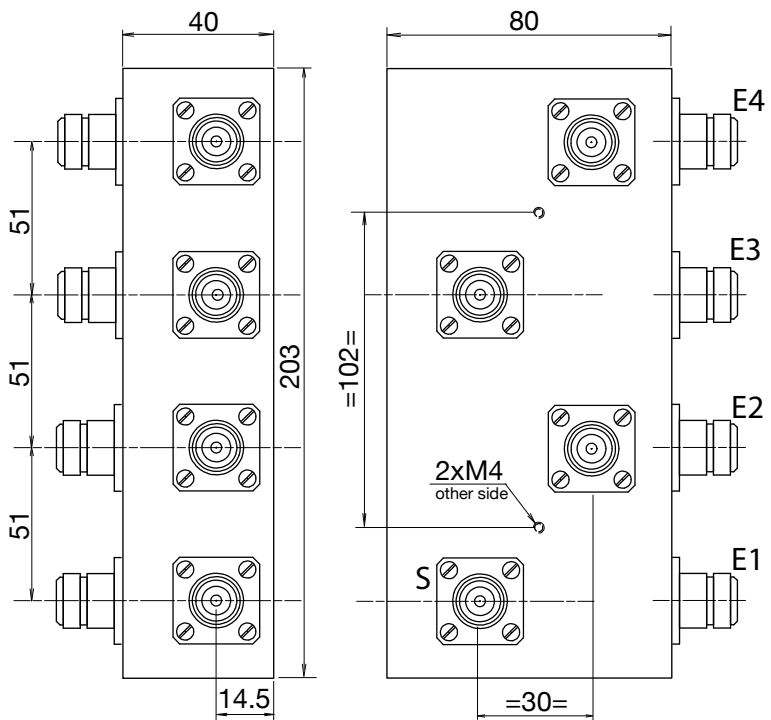
118-144 MHz 4 Ways Combiner



PMR Combiners Couplers & Duplexers



Frequency	118-144 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Average power @ 25°C	4 x 100 W
Insertion loss	<0.25 dB
Weight	550 gr



Dimensions in mm

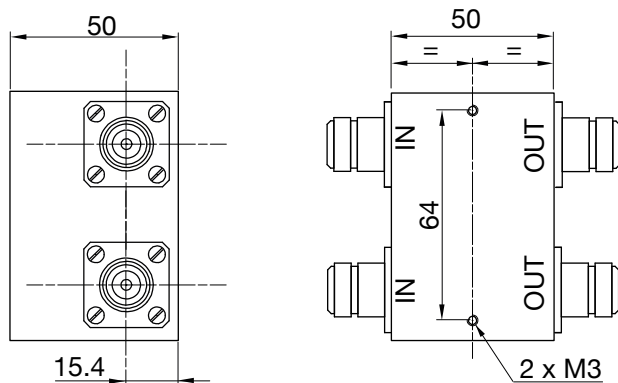
[Return to Search by Part Number](#)

P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CH-1115-4N	6 ± 0.5	≥23	<1.2	N f

146-174 MHz Hybrid Coupler



Frequency	146-174 MHz
Impedance	50 Ω
Temperature range	- 10 to + 60°C
Average power	2 x 100 W
Weight	370 gr



Dimensions in mm

[Return to Search by Part Number](#)

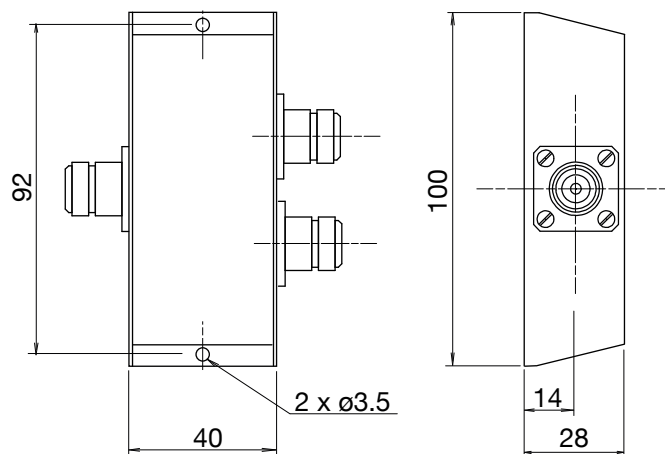
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CHS-1417-N	3 $\pm$ 0.3	$\geq$ 23	<1.2	N f



146-174 MHz 2 Ways Splitter



Frequency	146-174 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Weight	350 gr



Dimensions in mm

[Return to Search by Part Number](#)

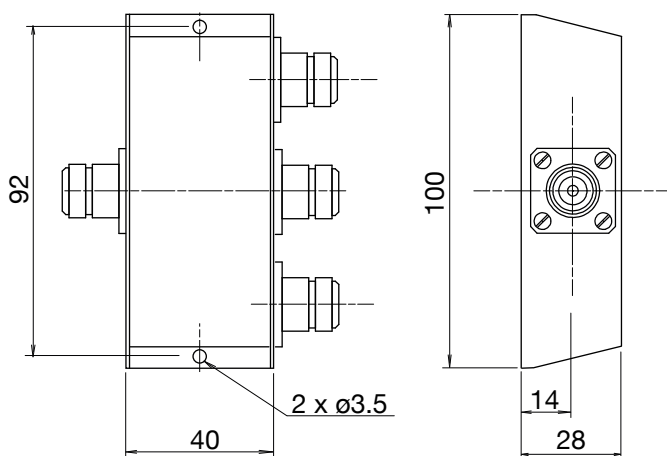
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-1417-2N	3 $\pm$ 0.3	≥ 20	<1.2	N f



146-174 MHz 3 Ways Splitter



Frequency 146-174 MHz
 Impedance 50 Ω
 Temperature range - 10 to + 55°C
 Weight 520 gr



Dimensions in mm

[Return to Search by Part Number](#)

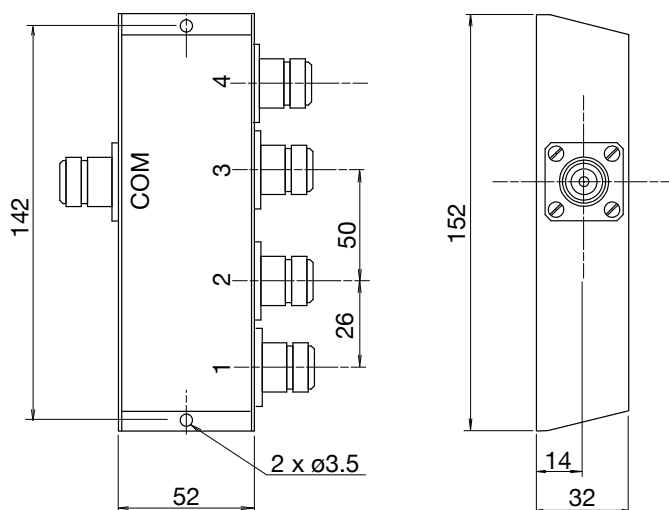
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-1417-3N	4.8 ± 0.3	≥20	<1.2	N f



146-174 MHz 4 Ways Splitter



Frequency	146-174 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Weight	690 gr



Dimensions in mm

[Return to Search by Part Number](#)

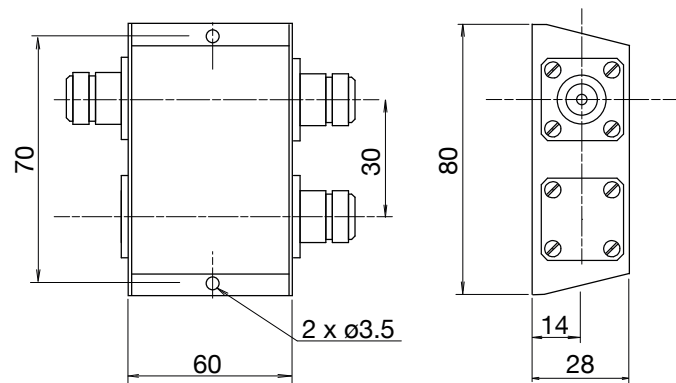
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-1417-4N	6.5 $\pm$ 0.4	$\geq$ 20	<1.2	N f



200-350 MHz Dual Band Combiner



Frequency	0-200 MHz / 350-500 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Average power @ 25°C	2 x 20 W
Weight	210 gr



Dimensions in mm

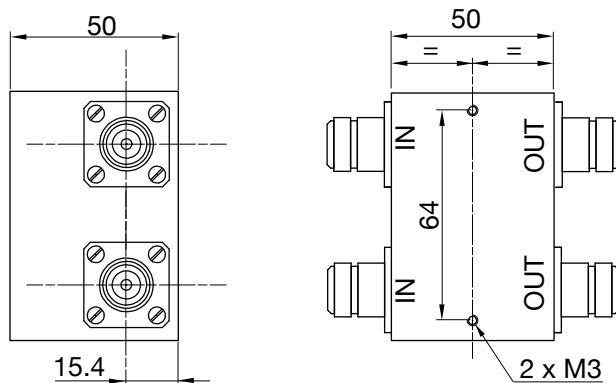
[Return to Search by Part Number](#)

P/N	Insertion loss (dB)	Isolation (dB)	Max VSWR	Connectors
DX 200 / 350 NF	<0.5	>40	<1.3	N f

225-400 MHz Hybrid Coupler



Frequency	225-400 MHz
Impedance	50 Ω
Temperature range	- 10 to + 60°C
Average power	2 x 100 W
Weight	370 gr



Dimensions in mm

[Return to Search by Part Number](#)

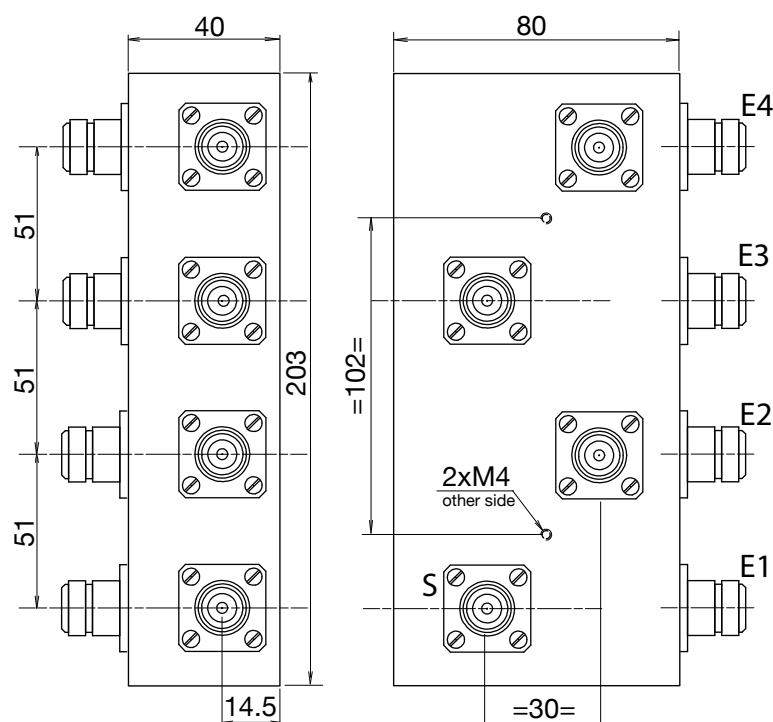
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CHS-2240-N	3 ± 0.3	≥20	<1.2	N f

PMR Combiners Couplers & Duplexers





The image displays four isometric views of a mechanical assembly, likely a component of a machine. The views are arranged in a 2x2 grid. The top view shows a rectangular base with a central square feature and four mounting points. The front view shows the assembly from the front, highlighting the central square and the mounting points. The side view shows the assembly from the side, showing the profile of the base and the mounting points. The bottom view shows the assembly from the bottom, showing the underside of the base and the mounting points.



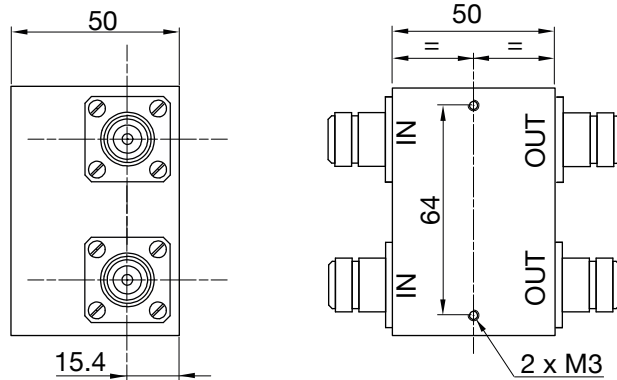
[Return to Search by Part Number](#)

P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CH-2240-4N	6 ± 0.5	>23	<1.2	N f

380-470 MHz Hybrid Coupler



Frequency	380-470 MHz
Impedance	50 Ω
Temperature range	- 10 to + 60°C
Average power	2 x 100 W
Weight	370 gr



Dimensions in mm

[Return to Search by Part Number](#)

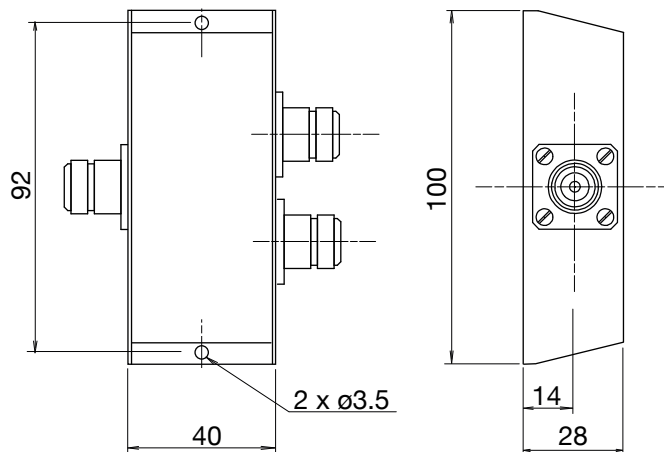
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CHS-3847-N	3 ± 0.3	≥ 23	< 1.2	N f
CHS-3847-NM	3 ± 0.3	≥ 23	< 1.2	N m (in) / N f (out)



380-470 MHz 2 Ways Splitter



Frequency	380-470 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Weight	350 gr



Dimensions in mm

[Return to Search by Part Number](#)

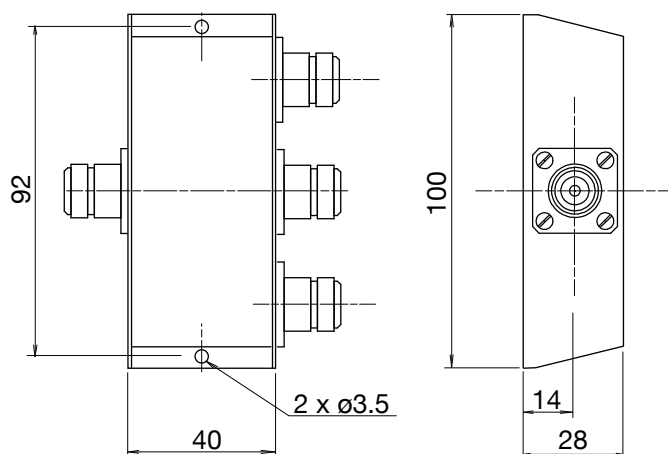
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-3847-2N	3 $\pm$ 0.3	≥ 20	<1.2	N f



380-470 MHz 3 Ways Splitter



Frequency	380-470 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Weight	520 gr



Dimensions in mm

[Return to Search by Part Number](#)

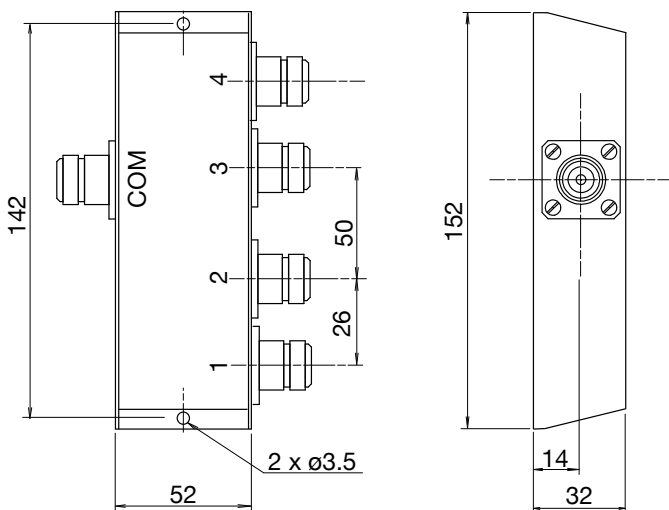
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-3847-3N	4.8 $\pm$ 0.3	$\geq$ 20	<1.2	N f



380-470 MHz 4 Ways Splitter



Frequency	380-470 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Weight	690 gr



Dimensions in mm

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P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-3847-4N	6 $\pm$ 0.3	$\geq$ 20	<1.2	N f



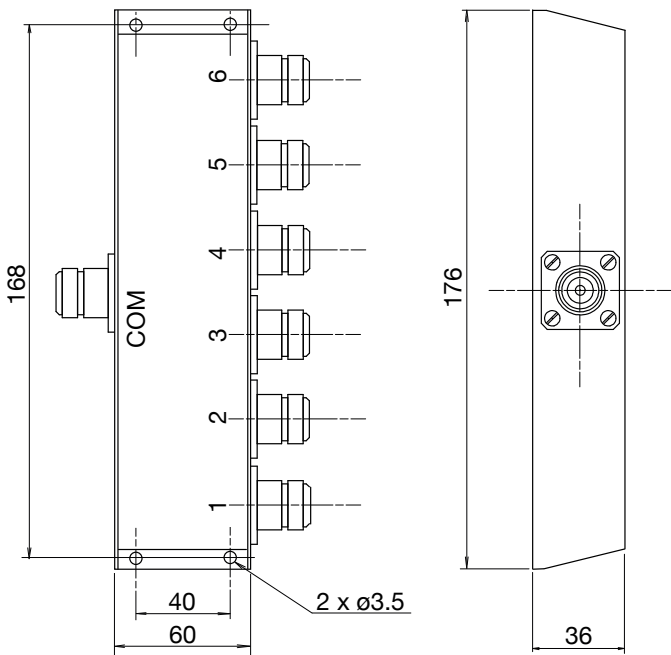
380-470 MHz 6 Ways Splitter



PMR Combiners Couplers & Duplexers



Frequency	380-470 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Weight	440 gr



Dimensions in mm

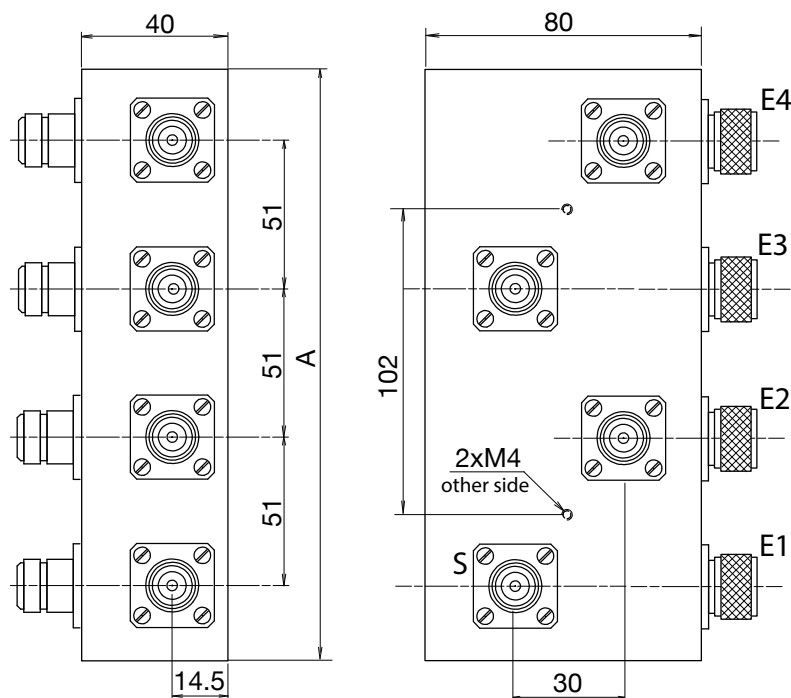
[Return to Search by Part Number](#)

P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
DP-3847-6N	7.8 ± 0.3	≥20	<1.2	N f

380-470 MHz 3-8 Ways Combiner



Frequency 380-470 MHz
 Impedance 50 Ω
 Temperature range - 10 to + 55°C
 Average power @ 25°C n ways x 100 W



Dimensions in mm

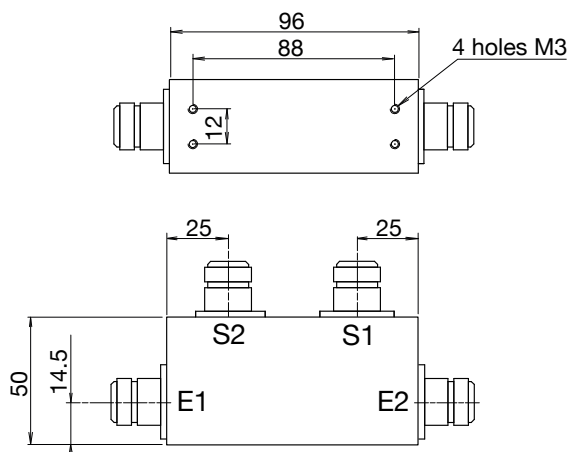
[Return to Search by Part Number](#)

P/N	N° of Ways	Coupling (dB)	Isolation (dB)	Max VSWR	A (mm)	Connectors
CH-3847-3N	3	4.8 $\pm$ 0.4	$\geq$ 23	<1.2	151	N f
CH-3847-3NM	3	4.8 $\pm$ 0.4	$\geq$ 23	<1.2	151	N m (in) / N f (out)
CH-3847-4N	4	6 $\pm$ 0.3	$\geq$ 23	<1.2	203	N f
CH-3847-6N	6	9 $\pm$ 0.4	$\geq$ 23	<1.2	305	N f
CH-3847-6NM	3	4.8 $\pm$ 0.4	$\geq$ 23	<1.2	305	N m (in) / N f (out)
CH-3847-8N	8	12 $\pm$ 0.6	$\geq$ 23	<1.2	409	N f

380-520 MHz Hybrid Coupler



Frequency	380-520 MHz
Impedance	50 Ω
Temperature range	- 10 to + 55°C
Average power	100 W
Weight	430 gr



Dimensions in mm

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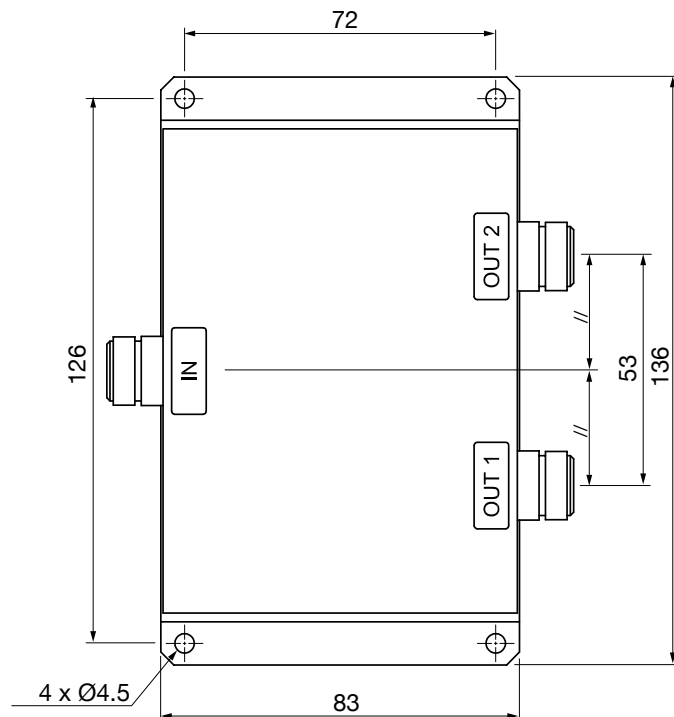
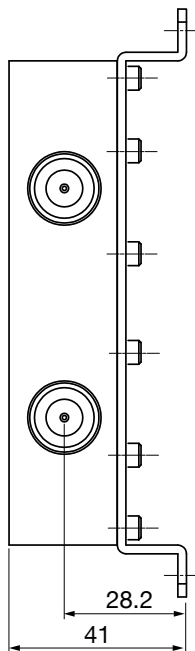
P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
CDB-3852-03	3 ± 0.5	≥ 23	< 1.2	N f
CDB-3852-05	4.7 ± 0.5	≥ 23	< 1.2	N f
CDB-3847-06	6 ± 0.5	≥ 23	< 1.2	N f
CDB-3847-10	10 ± 0.5	≥ 23	< 1.2	N f



380-520 MHz Splitter



Frequency	380-520 MHz
Impedance	50 Ω
Temperature range	- 10 to + 60°C
Maximum power	120 W
Weather protection	IP 66
Weight	560 gr



Dimensions in mm

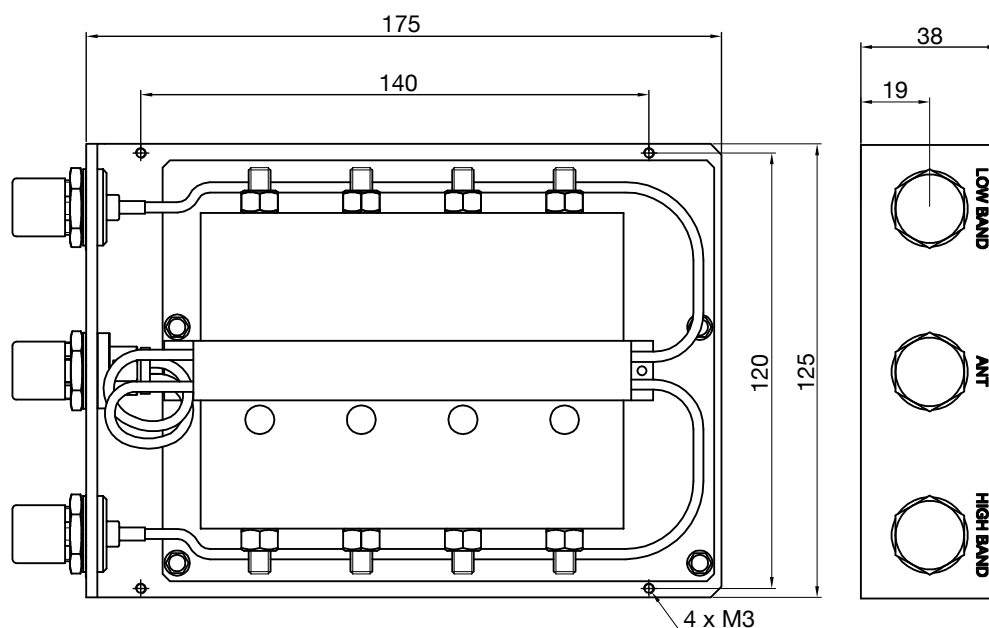
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P/N	Coupling (dB)	Isolation (dB)	Max VSWR	Connectors
807 391	3 $\pm$ 0.3	$\geq$ 20	<1.2	N f

380-520 MHz Duplexer



Frequency	380-520 MHz in 3 bands
Bandwidth	1 MHz
Duplex spacing	10 MHz
Impedance	50 Ω
Temperature range	- 25 to + 55°C
Average power @ 25°C	25 W
Material	Aluminium, brass, copper
Mounting	4 screws M3
Weight	650 gr



Dimensions in mm

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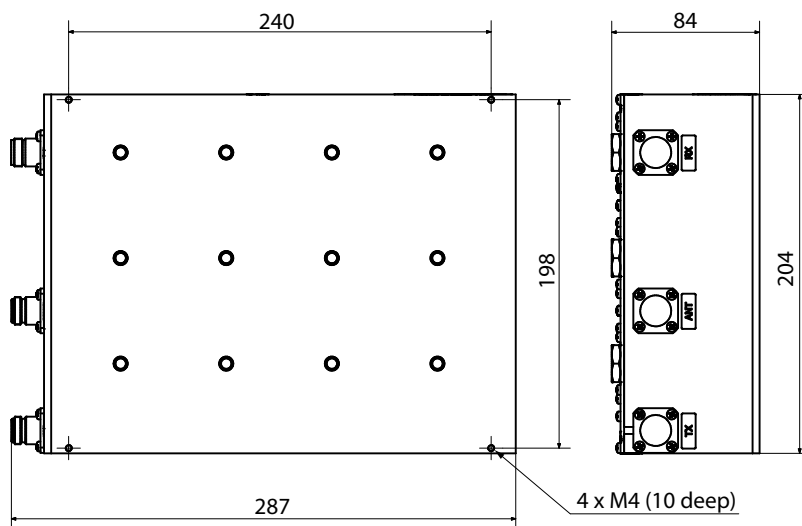
P/N	Frequency (MHz)	Isolation (dB)	Max VSWR	Insertion (dB)	Connectors
803 740	380-440	≥ 80	< 1.4	< 1.5	N f
803 750	430-480	≥ 80	< 1.4	< 1.5	N f
803 760	470-520	≥ 80	< 1.4	< 1.5	N f



380-520 MHz Tetra Duplexer



Frequency	380-520 MHz
Bandwidth	5 MHz
Duplex spacing	10 MHz
Intermodulation 5th order (2x43dBm)	< -150 dBc
Impedance	50 Ω
Temperature range	- 10 to + 60°C
Maximum power	150 W
Material	Aluminium, brass, copper
Mounting	4 screws M4
Weight	4.4 Kg



Dimensions in mm

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P/N	Frequency (MHz)		Isolation (dB)	Max VSWR	Insertion (dB)	Connectors
	Low band	High band				
806 002	380-385	390-395	≥ 80	<1.2	<1.2	N f
806 040	410-415	420-425	≥ 80	<1.2	<1.2	N f
806 055	415-420	425-430	≥ 80	<1.2	<1.2	N f
806 016	440-445	450-455	≥ 80	<1.2	<1.2	N f
806 072	450-455	460-465	≥ 80	<1.2	<1.2	N f
806 086	455-460	465-470	≥ 80	<1.2	<1.2	N f

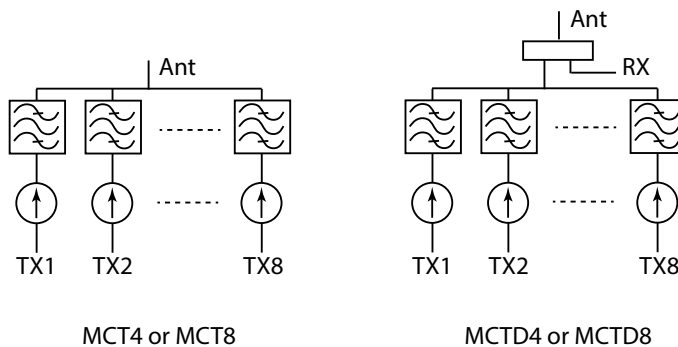
Option available inside a 19"2U rack

806 096	410-415	420-425	≥ 80	<1.2	<1.2	3 x N f, front panel
806 500	415-420	425-430	≥ 80	<1.2	<1.2	3 x N f, rear panel
806 073	450-455	460-465	≥ 80	<1.2	<1.2	3 x N f, front panel
806 089	380-385	390-395	≥ 80	<1.2	<1.2	3 x N f, rear panel
806 082	450-455	460-465	≥ 80	<1.2	<1.2	3 x N f, rear panel
806 087	455-460	465-470	≥ 80	<1.2	<1.2	3 x N f, rear panel

380-520 MHz PMR TX Combiner



Impedance	50 Ω
Inputs	n= 2 to 4 + 4
Frequency range	380... 520 MHz (tunable)
Min frequency spacing	150 kHz
Maximal power (each TX)	100 W
Insertion loss (1 up to 8 TX)	< 6 dB
VSWR (TX / Ant)	< 1.2 (TX) < 2.0 (Ant)
Attenuation	> 5 dB (at $f_0 \pm 150$ kHz)
TX-TX isolation	> 70 dB (Antenna VSWR = 1.0)
Intermodulation IM3	-43 dBm (2x50w)
Connector	N f
Temperature range	-10°C + 55°C
Temperature variation	< 0.2 kHz/°C
Dimensions	430 x 380 x 1000 mm
Weight	60 kg



[Return to Search by Part Number](#)

P/N	Model	Nb Chanel
00 371 801	PMR Combiner 380-520 MHz MCT4	4
00 403 401	PMR Combiner with Duplexer 380-520 MHz MCTD4	4
00 382 901	PMR Combiner 380-520 MHz MCT8	8
00 405 101	PMR Combiner with Duplexer 380-520 MHz MCTD8	8

* Contact us for different operating frequency

Search by Part Number

PMR Combiners Couplers & Duplexers



Part number	Page
CDB-3847-06	Y19
CDB-3847-10	Y19
CDB-3852-03	Y19
CDB-3852-05	Y19
CHS-1114-N	Y4
CH-1115-4N	Y5
CH-2240-4N	Y12
CH-3847-3N	Y18
CH-3847-3NM	Y18
CH-3847-4N	Y18
CH-3847-6N	Y18
CH-3847-6NM	P18
CH-3847-8N	Y18
CHS-1417-N	Y6
CHS-2240-N	Y11
CHS-3847-N	Y13
CHS-3847-NM	Y13
DP-1115-8N	Y3
DP-1417-2N	Y7
DP-1417-3N	Y8
DP-1417-4N	Y9
DP-3847-2N	Y14
DP-3847-3N	Y15
DP-3847-4N	Y16
DP-3847-6N	Y17
DX 200 / 350 NF	Y10
803 740	Y21
803 750	Y21
803 760	Y21
806 002	Y22
806 016	Y22
806 040	Y22
806 055	Y22
806 072	Y22
806 073	Y22
806 082	Y22
806 086	Y22
806 087	Y22
806 089	Y22
806 096	Y22
806 500	Y22
807 391	Y20
00 371 801	Y23
00 382 901	Y23
00 403 401	Y23
00 405 101	Y23

