



PROSE Filter Catalogue

PROSE

Who We Are

Rosenberger Hochfrequenztechnik GmbH & Co. was founded in Germany in 1958 and ranks among the leading manufacturers of high-speed interconnect solutions worldwide. With its long tradition of excellence and innovation, Rosenberger has excelled and earned an outstanding reputation all over the world.

In early 2022 the Rosenberger Group announced the restructure of its antenna and coverage solution product portfolio with a new brand entity PROSE. The strategic focus of PROSE will be on the development of base station antennas, microwave antennas, indoor and outdoor coverage solutions, Open RAN sub-systems, data center, cabling system, IoT solutions, Automotive and related services.

As an independent entity, PROSE, with its lean, agile, and decentralized organizational structure, will be better placed to serve global customers and manage growth by bringing new technologies and solutions, aligned with the changing needs of customers in the telecom industry. The PROSE product portfolio will uphold Rosenberger's tradition of the highest innovation and quality while delivering improved technology expertise and enhanced local customer support around the globe.

PROSE consists of more than 3500 people, with 40+ subsidiaries sales/service offices, 4 factories, and 7 R&D centers covering mainly North America, Europe, the Middle East, Africa, and Asia. It will continue to serve more than 100 operators/ service providers worldwide including a wide set of customized solutions for 5G deployments.

PROSE is an ISO 9001 quality system and ISO 14001 environmental system certified company. Equipped with advanced machinery, automatically assembly, and testing centers supported by a large group of more than 400 R&D engineers, state-of-the-art production assembly lines, and stringent product and quality control.

PROSE's reliability and competitiveness are the cornerstones of this sustainable growth, which have resulted in long-term partnerships with most of the leading companies in their respective industries. PROSE will continue to provide excellent product solutions and services for its customers around the world.



A: Pune, India
B: New Jersey, USA
C: Donauwörth, Germany
D: Suzhou, China



Mission

- Customer always comes first
- Drive innovation together with and for our customers
- Maintain a secure, humane and happy environment for our employees
- Develop our employees by investing in their education
- Take social responsibility
- Protect our environment with ecologically friendly products, production and processes

Core Value

- Value Innovation
- Customer Focus
- Sustainable Growth
- Social Responsibility

Products & Services

Filter Solutions	Interference Mitigation Filters Embedded Filters Site Combiners
BTS Antennas	Single-MultiBand Antennas Multibeam Antennas Beamforming Antennas Small Cell Antennas High Efficiency BSA (PROTREEM) 5G Massive MIMO Antennas Camouflage Products
Network Systems	Combiner Unit Master Unit Extended Unit Low Power Remote Unit (LPRU) High Power Remote Unit (HPRU)-Cabinet 4G High Power Remote Unit (HPRU)-Cabinet 5G High Power Remote Unit (HPRU)-Blade 4G High Power Remote Unit (HPRU)-Blade 5G Medium Power Remote Unit (MPRU) Passive DAS Components
Microwave Products	Class 3 Series Class 4 Series E-Band Series Dual-Band Series Microwave Components
O-RAN Radios	ORAN Radio Unit (ORU) Digital Control Unit (DCU) Small Cell
Archer Site Accessories	RF Coaxial Products Power Products Fiber Products Hybrid Cable Solution Installation Material
Digital World Products	Automatic Infrastructure Management System Building Cabling System Data Center Cabling System Edge Computing Data Center Modular Data Center MDC Cloud Management Platform

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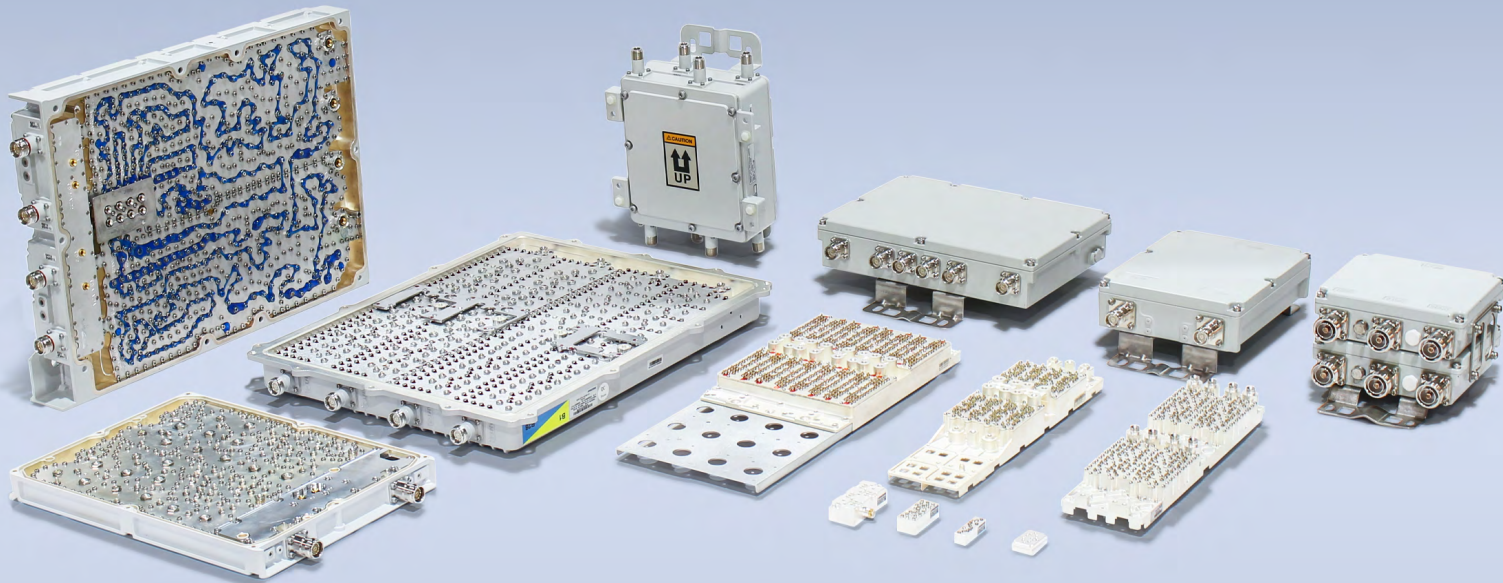


PROSE Filters Technology

PROSE has been committed to the communication industry over the years and offers a wide range of frequency management devices for different applications, including Antenna Filter Units (AFUs), Remote Radio Units (RRUs), and multi-systems combinations onsite.

PROSE offers a variety of solutions (MIM, Ceramic, Sheet Metal, Cavity) to meet current and diversified demands. The MIM (Metal Injection Molding) solution is the first in the world to be independently developed and mass-produced.

PROSE also provides high-power handling products, low passive Intermodulation products, and Interference Mitigation Filters (IMF) with traditional solutions. Based on customers' individual requirements, PROSE also provides customized professional solution



Interference Mitigation Filters (IMF)

Main Features

- Suitable for indoor and outdoor applications
- Available as a single unit, or for Xpol antennas as double units
- Wall or pole mounting
- Low insertion loss
- DC stop available as an accessory
- Dielectric technology to achieve high rejection with low insertion loss

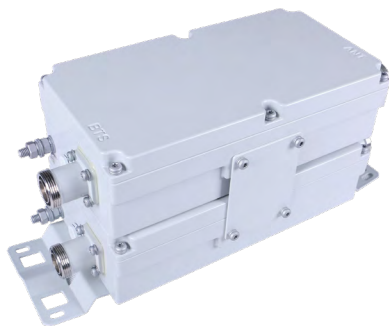
		Part Number																									
		QFT-08-182-64F-02	QFT-0708-176-64F-A01	DFT-QG-257-64F-OAW	DFT-08-257-64F-01	DFT-07-90-64F-A01	FT-08-10-DF-12	FT-08-10-DF-13	DFT-08-65-64F-01	DFT-08-65-DF-01	DFT-08-61.5-64F-01A	FT-08-55-D-05	DFT-09-80-64F-A01	DFT-09-30-D-01	DFT-09-75-DF-18	DFT-09-75-DF-06	DFT-09-75-64F-03	DFT-09-64-64F-A01	DFT-09-78-64F-05A	DFT-09-60-64F-A23	DFT-09-78-64F-04A	FT-09-05-N-03	OFT-35-40-64F-01	QFT-36-300-64F-B02	FT-38-60-229-A01	FT-42-400-64F-01	FT-42-400-229-A01
Frequency (MHz)	698-880	O																									
	703-803/814-879		O																								
	703-849			O	O																						
	713-803					O																					
	811-821						O	O																			
	814-879								O	O																	
	824-849/869-888.5										O																
	825-835/870-880											O															
	880-960												O														
	885-915/930-960													O													
	885-960														O	O	O										
	888.4-952.4																	O									
	890-915/925-960																		O								
	890.2-915/935.2-960																			O							
	892.5-915/925-960																				O						
	920-923																					O					
	3410-3450																						O				
3600-3900																								O			
3740-3800																									O		
3800-4200																										O	O

* Note: Other types IMF available on request

DFT-08-65-DF-01

Main Features

- Low VSWR, high isolation
- Low PIM, low insertion loss
- Compact design for easy installation
- Customized band is available
- AISG/DC bypass



Electrical Specifications	
Frequency	814~879MHz
Return loss	≤-18 dB
Insertion loss	≤ 2.5dB@878~879MHz
	≤0.9dB@877~878MHz
	≤0.6dB@873~877MHz
	≤0.35dB@814~873MHz
Rejection	≥27dB@880.1~890MHz
Power handling	Average:80W
Intermodulation (3 rd order)	≤-153dBc @ 2 x 20W
DC characteristic	DC bypass for all ports
Impedance	50Ω

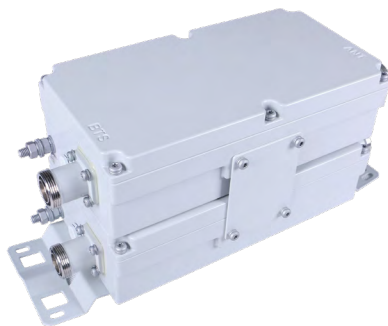
Environmental Specifications	
Operating temperature range	0°C to +45°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Applications	IP67

Mechanical Specifications	
Dimension	263 x 139 x 152 (mm, excluding brackets and connectors)
Weight	≤7.5kg
Connectors type	4.3-10 female
Mounting	Wall or pole

DFT-09-75-64F-03

Main Features

- Low VSWR, high isolation
- Low PIM, low insertion loss
- Compact design for easy installation
- Customized band is available
- AISG/DC bypass



Electrical Specifications	
Frequency	885-960 MHz
Return loss/VSWR	≤-19 dB /1.25
Insertion loss	≤1.3dB @885-905 MHz
	≤0.5dB @905-960 MHz
Rejection	≥ 65dB @859-880 MHz
	≥ 50dB @824-859 MHz
Power handling	Average:100W
Intermodulation (3 rd order)	≤-150dBc @ 2 x 20W
DC characteristic	DC bypass for all ports
Impedance	50Ω

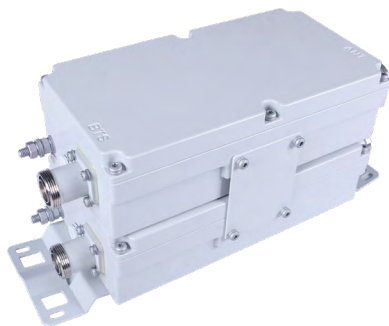
Environmental Specifications	
Operating temperature range	0°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Applications	IP67

Mechanical Specifications	
Dimension	263 x 139 x 152 (mm, excluding brackets and connectors)
Weight	≤6.0kg
Connectors type	4.3-10 female
Mounting	Wall or pole

DFT-09-30-D-01

Main Features

- Low VSWR, high isolation
- Low PIM, low insertion loss
- Compact design for easy installation
- Customized band is available
- AISG/DC bypass



Electrical Specifications	
Frequency	885~915MHz/930~960MHz
Return loss/VSWR	≤-19 dB /1.25
Insertion loss	≤1.3dB @885-905 MHz
	≤0.5dB @905-960 MHz
Rejection	≥ 65dB @859-880 MHz
	≥ 50dB @824-859 MHz
Power handling	Average:100W
Intermodulation (3 rd order)	≤-150dBc @ 2 x 20W
DC characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	0°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Applications	IP67

Mechanical Specifications	
Dimension	263 x 139 x 152 (mm, excluding brackets and connectors)
Weight	≤6.0kg
Connectors type	4.3-10 female
Mounting	Wall or pole

FT-38-60-229-A01

Main Features

- Low VSWR, high isolation
- Low insertion loss
- Compact design for easy installation



Electrical Specifications	
Frequency	3740-3800 MHz
Return loss/VSWR	≤-18 dB/1.3
Insertion loss band	0.35dB typ.
Insertion loss worst case full band	1.5dB max.
Rejection	≥70 dB@3300-3640 MHz
	≥60 dB@3640-3720 MHz
	≥30 dB@3720-3725 MHz
Group Delay Variation	≤3 ns within ±0.5 MHz of any frequency within the passband
Power handling	50W (average)
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-30°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Applications	IP66

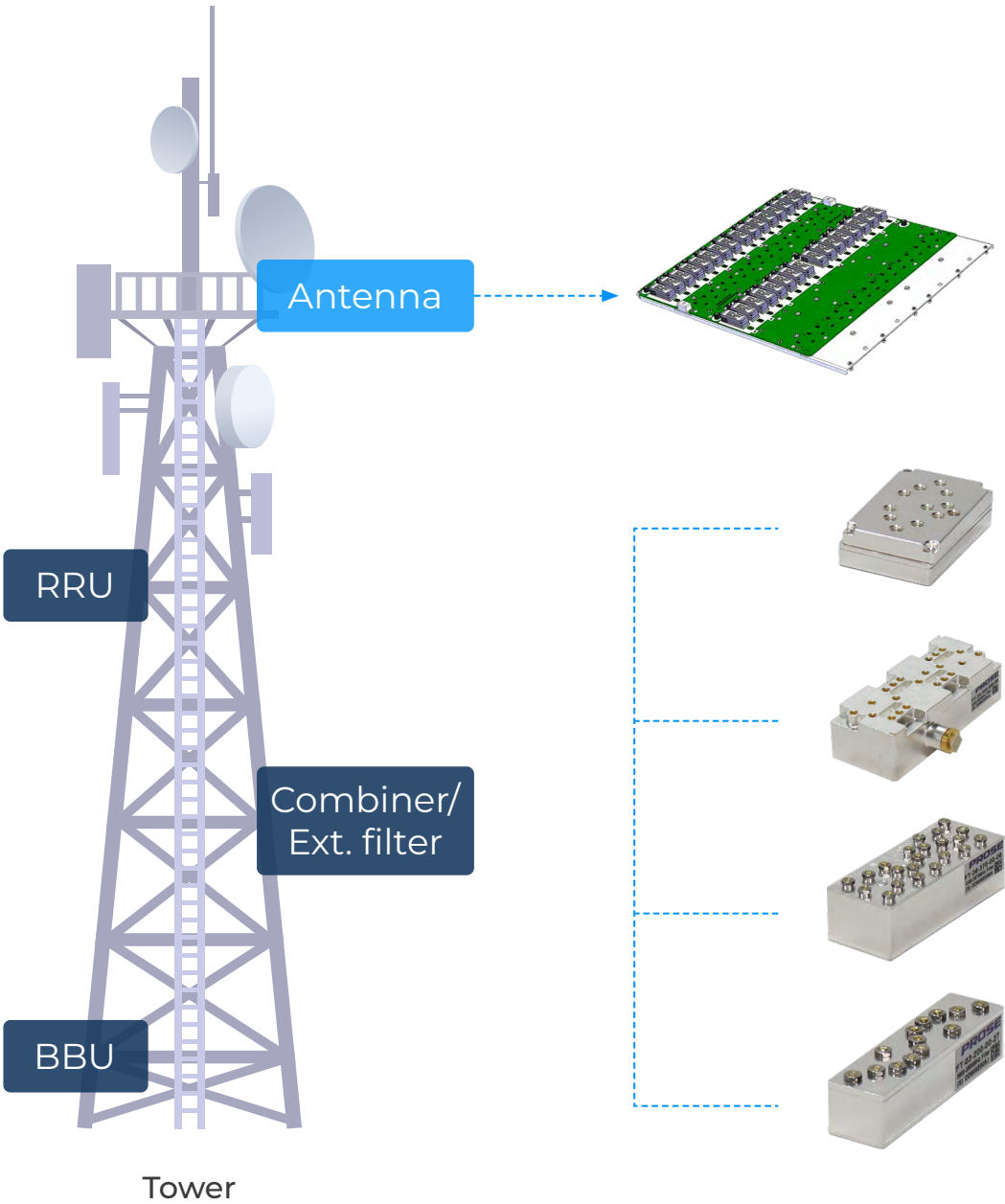
Mechanical Specifications	
Dimension	150x105x69.85 (mm)
Weight	≤1 kg
Connectors type	CPR229-G(Input) / CPR229-F(Output)
Packing	1Pcs in box

Embedded Filters

Applications on Antenna Filter Units (AFUs)

Main Features

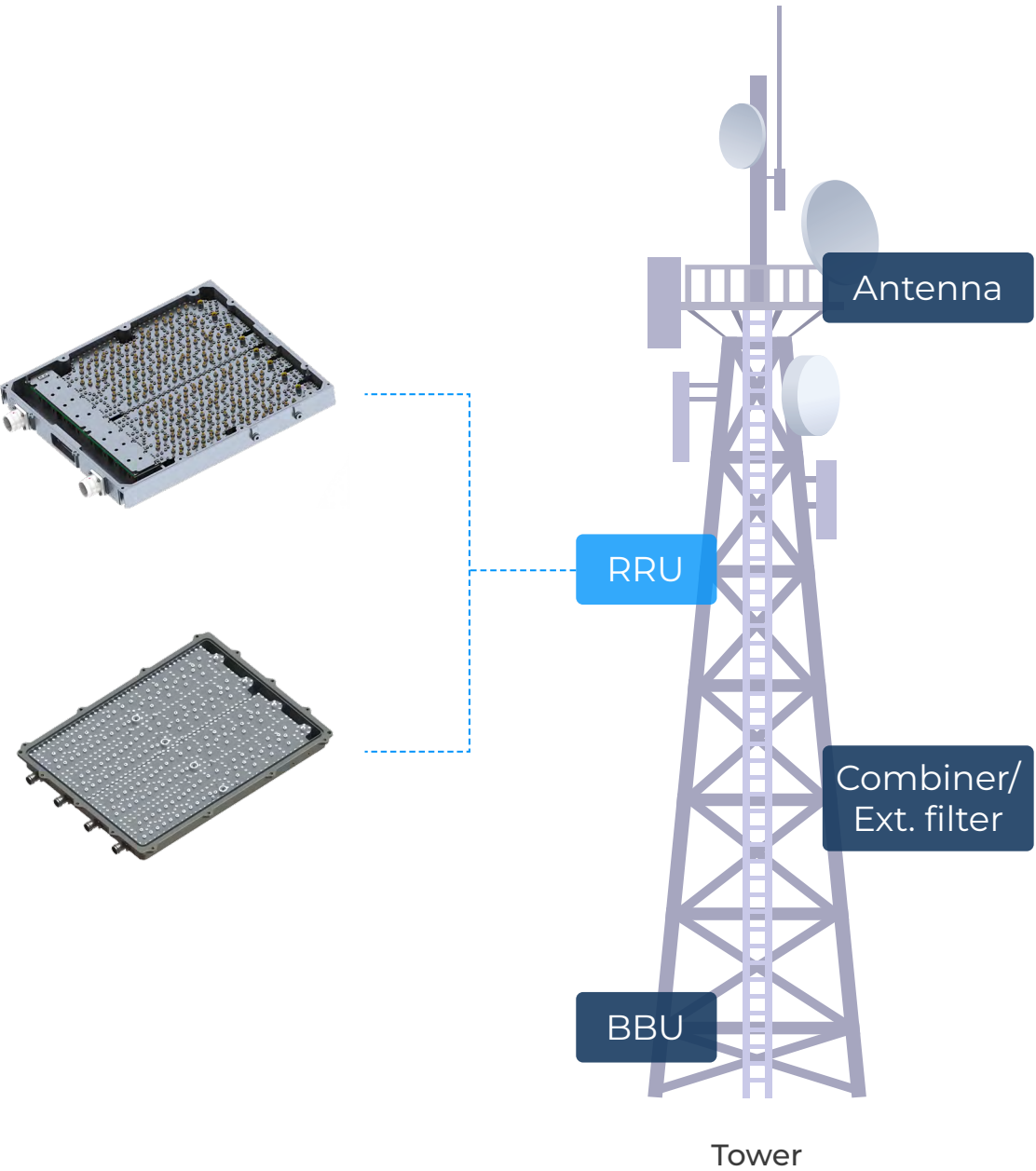
- Small Metal filter
- High Integration to Antenna System
- Structure simplify
- Simple assembly
- Components reduction
- Small size, low weight
- Better performance, no need LPF
- Reliability improvement
- Cost reduction
- Multi-type RF connection



Applications on Remote Radio Units (RRUs)

Main Features

- Complete product series to cover band up to 6th generation
- Single unit, Double unit, 4T4R, 8T8R
- Compact design
- High reliability
- Simple installation
- Low PIM
- High Power handling
- Designed in China and manufactured outside



Combiners

Main Features

- Suitable for co-siting purposes
- Reduce infrastructure cost
- Enable feeder sharing
- Suitable for indoor and outdoor applications
- Available as a single unit, or for Xpol antennas as double units
- Can be used as a combiner or in reciprocal function
- Wall or pole mounting
- Low insertion loss
- DC stop available as an accessory



Diplexer

[illegible]

* Note: Other types diplexer available on request

CB-2-CG-DF-17

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 824~880MHz CH2: 885~960MHz
Return loss	≤-18dB
Insertion loss	≤1.0dB
Isolation	≥50dB
Power capacity	300W
Intermodulation(3 rd order)	≤-150dBc@2x20W
DC/AISG characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-25°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	265x201.8x68(mm)
Weight	≤6.5kg
Connector type	DIN female
Mounting	Wall or pole
Packing	1Pce in box

DCB-2-DD-DF-01

Main Features

- Compact, low weight
- Low PIM
- Simple installation
- Double units



Electrical Specifications	
Frequency	CH1: 1710~1750/1805~1845MHz CH2: 1760~1785/1855~1880MHz
Return loss	≤-18dB
Insertion loss	≤1.0dB
Isolation Band-1~Band-2	≥40dB
Power handling	300W
Intermodulation(3 rd order)	≤-150dBc@2×20W
Impedance	50Ω
DC characteristic	DC bypass for all ports

Environmental Specifications	
Operating temperature range	-30°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	213x289x92(mm)
Weight	<9.5kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

DCB-2-CG-DF-18

Main Features

- Compact, low weight
- High power handling
- Low PIM
- Simple installation



Electrical Specifications	
Frequency	CH1: 698~803 MHz CH2: 824~960MHz
Return loss	≤-18dB
Insertion loss	≤0.8dB
Isolation	≥50dB
Power handling	300W
Intermodulation(3 rd order)	≤-150dBc@2×20W
DC characteristic	DC bypass for all ports
Impedance	50Ω

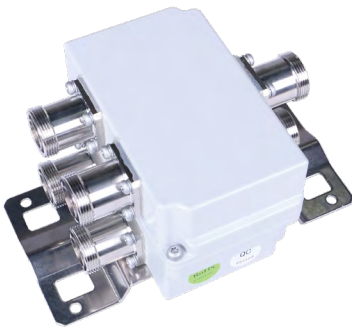
Environmental Specifications	
Operating temperature range	-25°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	204x165x128(mm)
Weight	≤7kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

DCB-2-LG-DF-01

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 1710~1880MHz CH2: 2300~2400MHz
Return loss	≤-20dB
Insertion loss	≤0.4dB
Isolation CH1 & CH2	≥50dB
Power handling	300W
Intermodulation(3 rd order)	≤-150dBc@2×20W
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-10°C~+60°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	83x145x84(mm)
Weight	2.6kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

DCB-2-LG-DF-11

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 703~803MHz CH2: 885~960MHz
Return loss	≤-20dB
Insertion loss	≤1.0dB
Rejection	≥50dB
Power handling	300W
Intermodulation(3 rd order)	≤-155dBc@2x20W
Impedance	50Ω

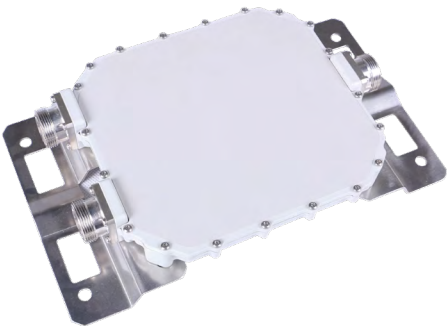
Environmental Specifications	
Operating temperature range	-30°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	245X128x127.7(mm)
Weight	7kg
Connector type	DIN female
Mounting	Wall or pole
Structure	90~110mm
Packing	1Pce in box

CB-2-CU-DF-H

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 790~960MHz CH2: 1710~2170MHz
Return loss	≤-20dB
Insertion loss	CH1: ≤0.2dB CH2: ≤0.25dB
Isolation CH1 & CH2	≥48dB
Power handling	300W
Intermodulation(3 rd order)	≤-150dBc@2×20W
Impedance	50Ω
DC characteristic	DC bypass for all ports

Environmental Specifications	
Operating temperature range	-40°C~+60°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	291x176x49(mm)
Weight	1.7kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box



Triplexer

		Part Number																				
		CB-3-LBM-64F-A15	CB-3-YZH-64F-A01	CB-3-GDU-64F-A11	CB-3-GDU-DF-A04	CB-3-GDU-64F-A12	CB-3-GDU-DF-10	CB-3-GDWE-64F-08	CB-3-GDU-DF-A01-T	CB-3-L14DJS-DF-A01	CB-3-LBNE-64F-A01	CB-3-QRES-DF-A01	CB-3-GDL-DF-02G	CB-3-GNE-NF-A01	CB-3-GNES-NF-A01	CB-3-DWE-NF-A17	CB-3-DWE-64F-A18	CB-3-DWE-64F-A01-T	CB-3-DWE-DF-A02	CB-3-DWE-64F-A15	CB-3-BMS-DF-A01	CB-3-UNES-NF-A01
Frequency (MHz)	690-960	O																				
	694-862		O																			
	698-960			O	O	O	O	O	O	O	O											
	703-803											O										
	790-960												O									
	814-879											O										
	880-960		O											O	O							
	1710-1880			O	O	O	O	O	O	O						O	O	O	O	O		
	1710-2170	O											O								O	
	1710-2400										O											
	1710-2700		O																			
	1920-2170			O	O	O	O									O	O	O	O	O		O
	1920-2690																					
	1920-2700							O	O													
	1920-3800									O												
	2270-2700												O									
	2300-2400													O								
	2300-2700	O													O	O	O	O	O		O	O
	2300-3800											O										
	2496-2690										O											
	2500-2690													O								
	2500-2700																			O		
	3300-3800														O							O
	3400-4000																				O	

* Note: Other types triplexer available on request

CB-3-DWE-DF-A02

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 1710~1880MHz CH2: 1920~2170MHz CH3: 2300~2700MHz
Return loss/VSWR	≤-20dB
Insertion loss	≤0.5dB
Isolation	≥50dB
Power handling	300W
Intermodulation(3 rd order)	≤-153dBc@2×20W
DC characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-40°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	204×185×54(mm)
Weight	≤4.0kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

CB-3-DWE-64F-A01-T

Main Features

- Low VSWR, high isolation
- Low PIM, low insertion loss
- Compact design for easy installation
- Customized band is available
- 5G application is compatible



Electrical Specifications	
Frequency	CH1: 1710~1880MHz CH2: 1920~2170MHz CH3: 2300~2690MHz
Return loss	≤-18dB
Insertion loss	≤0.4dB
Isolation	≥50dB
Power handling	250W Average
Intermodulation(3 rd order)	≤-163dBc @ 2 x 43dBm
DC characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-25°C to +65°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
LightningProtection	10KA, 8/20us
Applications	IP67

CB-3-GDU-DF-10

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 698~960MHz CH2: 1710~1880MHz CH3: 1920~2170MHz
Return loss	≤-20dB
Insertion loss	≤0.4
Isolation	≥50dB
Power handling	300W
Intermodulation(3 rd order)	≤-150dBc@2×20W
DC characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-10°C~+60°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	204×208×52.5(mm)
Weight	2.8kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

CB-3-GDU-DF-A01-T

Main Features

- Compact, low weight
- Contain LTE, CDMA, GSM, DCS and WCDMA full band
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 698~960MHz CH2: 1710~1880MHz CH3: 1920~2170MHz
Return loss	≤-20dB
Insertion loss	≤0.35dB, typical 0.2dB
Isolation	≥50dB
Power handling	250W per port
Intermodulation(3 rd order)	≤-163dBc @ 2 x 43dBm
DC characteristic	DC by-pass between all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-25°C to +65°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Lightning protection	5KA, 8/20us
Barometric pressure	55KPa -106KPa
Applications	IP67

Mechanical Specifications	
Dimension	211 x 175 x 51 (mm, excluding brackets and connectors)
Weight	≤3.0 kg
Connector type	7-16 female
Mounting	Wall or pole
Installation hoop	35-135mm
Packing	1Pcs in box

CB-3-GDL-DF-02G

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 790~960MHz CH2: 1710~2170MHz CH3: 2270~2700MHz
Return loss	≤-20dB
Insertion loss	≤0.5dB
Isolation	≥70dB
Intermodulation(3 rd order)	≤-150dBc@2×20W
Power handling	300W
DC option	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-10°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	200×200×52(mm)
Weight	≤4.5kg
Connectors type	DIN female
Installation hoop	90~110mm
Mounting	Wall or pole

CB-3-GDU-64F-10

Main Features

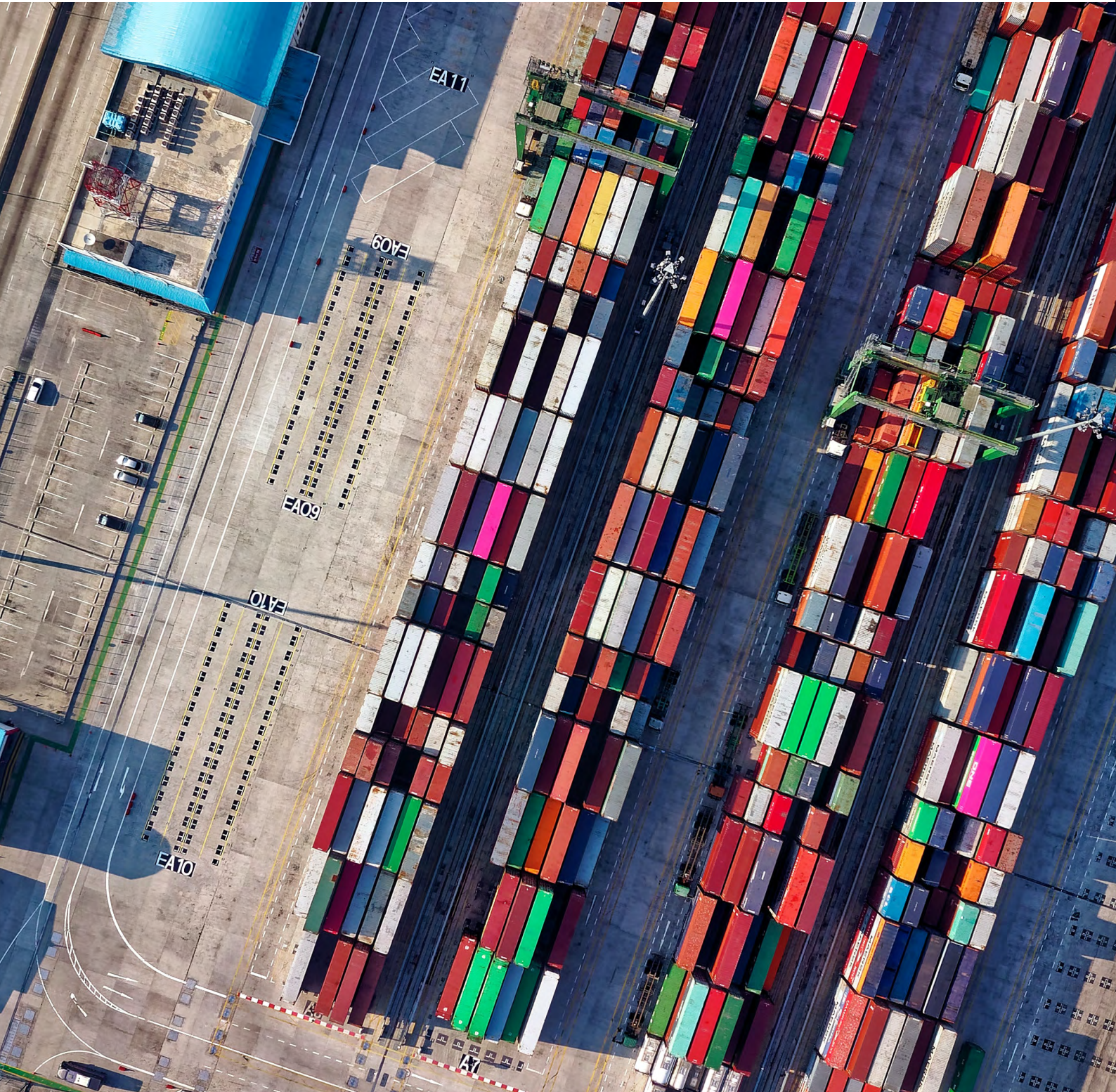
- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications	
Frequency	CH1: 698~960MHz CH2: 1710~1880MHz CH3: 1920~2170MHz
Return loss	≤-20dB
Insertion loss	≤0.4dB
Isolation	≥50dB
Power handling	300W
Intermodulation(3 rd order)	≤-150dBc@2x20W
DC/AISG characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-10°C~+60°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	204×208×52.5(mm)
Weight	2.8kg
Connectors type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box



Multiplexer

	Part Number															
	CB-4-KDUM-64F-02	CB-4-KDUM-64F-A01-T	CB-4-LDUM-64F-A08	CB-4-L14DJS-DF-A01	CB-4-YZDU-64F-A12	CB-4-GDWE-DF-08G	CB-4-GDWE-64F-01	CB-4-LDUNES-NF-A01	CB-4-LDUM-64F-A04	CB-5-KDUMS-DF-A01	CB-5-LDUES-64F-B02	CB-5-GDULE-DF-16G	CB-5-UGDWE-DF-A03	CB-5-LDUES-64F-A01-T3	CB-5-LDNES-NF-A01	CB-5-UGDWL-NF-A03
380-960	○	○								○						
690-960			○												○	○
694-862				○												
698-803					○											
698-960						○	○				○	○				
703-803																○
790-862													○			
791-960								○						○	○	
806-879															○	
824-885																○
829-885.375																○
870-960													○			
880-960				○	○				○							
885-960															○	
890-960																○
1695-1880																○
1710-1880	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1920-2170	○	○	○			○	○	○	○	○	○	○	○	○	○	○
1920-2200					○											
1920-3800				○												
2300-2400												○			○	
2270-2700						○										
2300-2700	○	○	○							○	○		○			○
2300-3800								○								
2500-2690							○		○		○			○	○	○
3300-3800										○	○			○	○	○

* Note: Other types multiplexer available on request

CB-4-KDUM-64F-A01-T

Main Features

- Low VSWR, high isolation
- Low PIM, low insertion loss
- Compact design for easy installation
- Customized band is available
- 5G application is compatible



Electrical Specifications	
Frequency	CH1: 380~960MHz CH2: 1710~1880MHz CH3: 1920~2170MHz CH4: 2300~2700MHz
VSWR	≤1.25
Insertion loss	≤0.3dB@CH1 ≤0.5dB@CH2&CH3&CH4
Isolation	≥50dB
Power handling	250W
Intermodulation (3 rd order, typical)	≤-163dBc @ 2 x 43dBm
DC characteristic	DC bypass for all ports
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-25°C to +65°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Applications	IP67
LightningProtection	10KA, 8/20us

Mechanical Specifications	
Dimension	204 x 177 x 50 (mm, excluding brackets and connectors)
Weight	≤3.2kg
Connectors type	4,3-10 female
Mounting	Wall or pole
Packing	1Pcs in box

CB-4-GDWE-DF-08G

Main Features

- Compact, low weight
- Low PIM
- High reliability
- Simple installation



Electrical Specifications				
	CH1	CH2	CH3	CH4
Frequency	698~960MHz	1710~1880MHz	1920~2170MHz	2270~2700MHz
Return loss/VSWR	≤-20dB	≤-20dB	≤-20dB	≤-20dB
Insertion loss	≤0.5dB	≤0.5dB	≤0.5dB	≤0.5dB
Isolation	≥50dB			
Power handling	300W			
Intermodulation(3 rd order)	≤-155dBc@2×20W			
DC characteristic	DC bypass for all ports			
Impedance	50Ω			

Environmental Specifications	
Operating temperature range	-30°C~+70°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	239.5x158.5x51.5(mm)
Weight	≤4.5kg
Connector type	DIN female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

CB-4-GDWE-64F-01

Main Features

- High rejection, low vswr and loss
- High power handling
- Low PIM
- Simple installation



Electrical Specifications				
	CH1	CH2	CH3	CH4
Frequency	698~960MHz	1710~1880MHz	1920~2170MHz	2500~2700MHz
Return loss	≤-20dB	≤-20dB	≤-20dB	≤-20dB
Insertion loss	≤0.3dB	≤0.3dB	≤0.3dB	≤0.3dB
Isolation(dB)	≥50@1710~1880MHz ≥50@1920~2170MHz ≥50@2500~2700MHz	≥50@698~960MHz ≥50@1920~2170MHz ≥50@2500~2700MHz	≥50@698~960MHz ≥50@1710~1880MHz ≥50@2500~2700MHz	≥50@698~960MHz ≥50@1710~1880MHz ≥50@1920~2170MHz
Intermodulation (3 rd order)	≤-160dBc@2X20W			
Power handling	300W			
DC Charicteristic	DC bypass for all ports			
Impedance	50Ω			

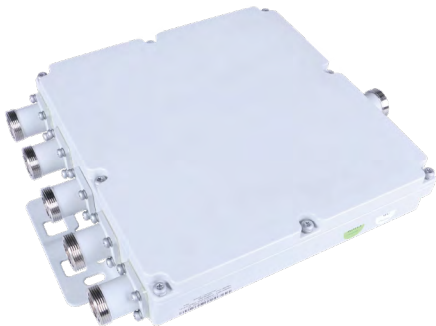
Environmental Specifications	
Operating temperature range	-20°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	222×270×52(mm)
Weight	6.0kg
Connector type	4.3-10 female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

CB-5-GDULE-DF-16G

Main Features

- High power handling
- Low insertion loss
- Low PIM
- Simple installation



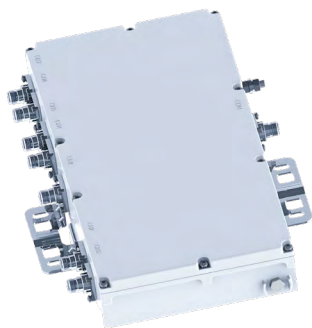
Electrical Specifications					
	CH1	CH2	CH3	CH4	CH5
Frequency	698~960MHz	1710~1880MHz	1920~2170MHz	2300~2390MHz	2500~2690MHz
Return loss	≥20dB	≥20dB	≥20dB	≥20dB	≥20dB
Insertion loss	≤0.5dB	≤0.5dB	≤0.5dB	≤0.5dB	≤0.5dB
Isolation(dB)	≥50dB				
Intermodulation (3 rd order)	≤-150dBc@2x20W				
Impedance	50Ω				
Power	300W				
DC/AISG Bypass	DC bypass for CH5, DC stop for other ports				

Environmental Specifications	
Operating temperature range	-10°C~+65°C
Storage temperature range	-40°C~+85°C
Relative humidity	5%~95%
Lightning protection	5kA(8/20us) RF ports, M6 earth stud fitted
Barometric pressure	55KPa~106KPa
Applications	IP67

Mechanical Specifications	
Dimension	254x240x54.5(mm)
Weight	≤6.0kg
Connector type	7/16 female
Mounting	Wall or pole
Installation hoop	90~110mm
Packing	1Pce in box

Main Features

- Low VSWR, high isolation
- Low PIM, low insertion loss
- Compact design for easy installation
- Customized band is available
- Auto-sense function for AISG/DC bypass is optional



Electrical Specifications	
Frequency	CH1: 703-803 MHz CH2: 829-885.375 MHz CH3: 890-960 MHz CH4: 1710-1880 MHz CH5: 1920-2170 MHz CH6: 2300-2400 MHz CH7: 2500-2690 MHz
Return loss	≤-20dB
Insertion loss	≤1.3dB@CH2&CH3 ≤0.5dB@CH1&CH4&CH5&CH6&CH7
Isolation	≥50dB
Power handling	100W (Average)
Intermodulation(3 rd order)	≤-150dBc @ 2 x 43dBm
DC characteristic	DC Stop
Impedance	50Ω

Environmental Specifications	
Operating temperature range	-0°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5%- 95%
Applications	IP65

Mechanical Specifications	
Dimension	252 x 466 x 57 (mm, excluding brackets and connectors)
Weight	≤9.5kg
Connectors type	N female
Mounting	Wall or pole
Packing	1Pcs in box

PROSE Service

PROSE offers professional services that improve network design, reliability, scalability and efficiency.

Our service core competences include:

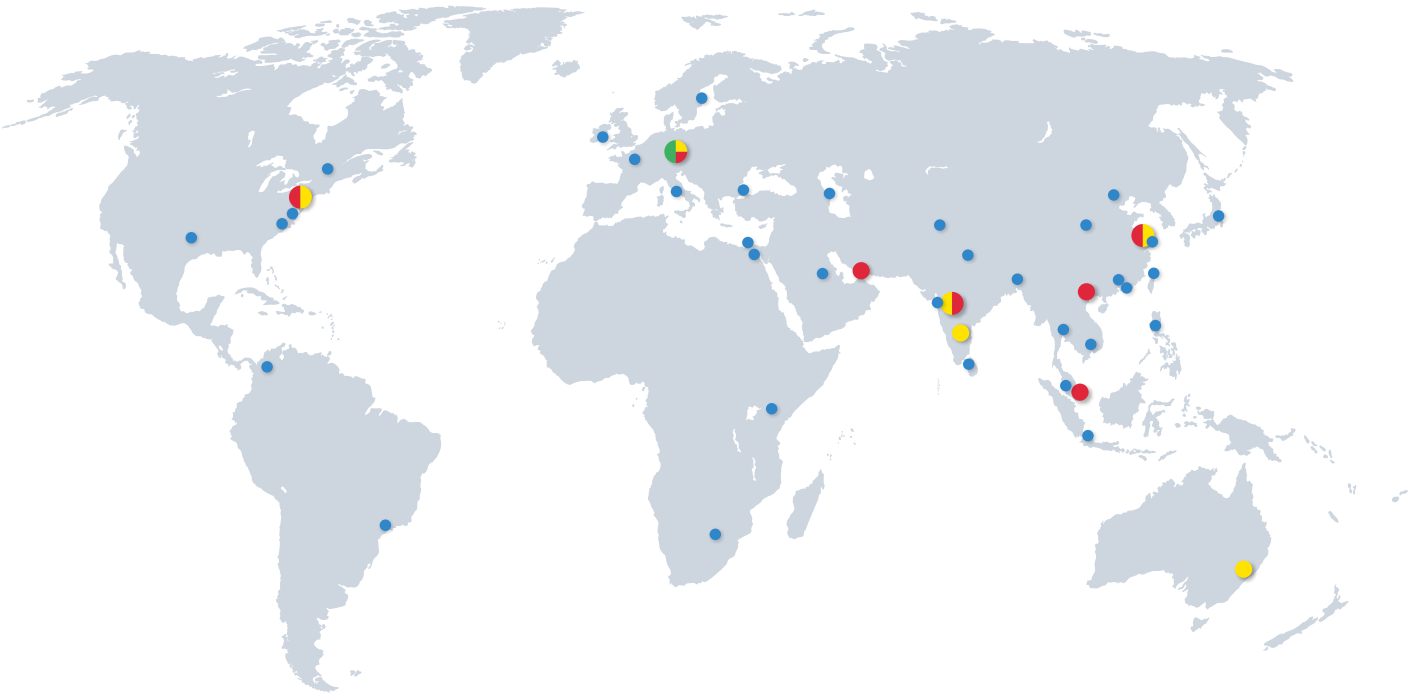
- Network optimization
- Technical consultation
- Customized product design
- Installation & commissioning
- Onsite training & supervision
- System troubleshooting
- After-sales services

In addition, we also offer professional training, technical support and workshops for distributors and agents. We are committed to offering exceptional services for our customers.

PROSE is much more than just a supplier – PROSE is a valued development partner and we will strive to meet new challenges in order to scale to new heights.



GLOBAL FOOTPRINT



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- PRODUCTION / OPERATIONAL HUB
- R&D CENTER
- SUBSIDIARIES / SALES REPRESENTATIVES



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