

3Rwave



Your Reliable Business Partner.
Robust Products out of Rational Mind of 3Rwave.



❖ History

- 2012
 - 2 3Rwave established
 - 5 Registered as a venture company
- 2013
 - 2 A certified R&D department established
 - 3 ISO9001 certified
 - 9 ISO14001 certified
 - 10 Registered as a partner company of KITECH (Korea Institute of Industrial Technology)
- 2014
 - 10 Completed an R&D project sponsored by Industrial Administration (2013.8~2014.10)
 - 11 Completed an R&D project sponsored by Gyeonggi Province R&D Administration (2013.12~2014.11)
- 2015
 - 10 Initiated an Innovative R&D project sponsored by Industrial Administration (2015.10~2018.01)
- 2016
 - 9 A certified R&D Center Established
- 2017
 - 1 Filter business launched
- 2018
 - 5 SMD coupler business launched
- Now
 - Presently holding 7 patents

❖ Core Value

Your Reliable Business Partner.
Robust Products out of Rational Mind of 3Rwave.



Certificates



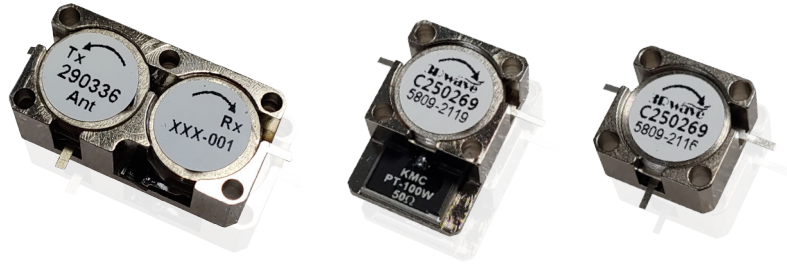
Patents



Drop-in Type (0.5 inch)

Isolator

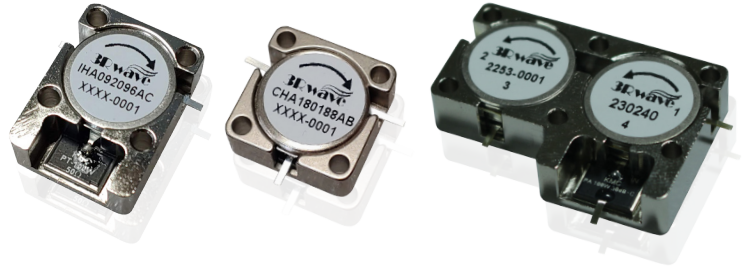
Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
1470~1520	12.7 x 12.7 x 6.2	IMA147152AK	0.4	0.5	20	18	50	10
1805~1880	12.7 x 18.5 x 6.2	IMA180188AA	0.23	0.3	26	22	100	100
1805~1880	12.7 x 12.7 x 6.2	IMA180188AK	0.22	0.28	27	22	120	10
1930~1990	12.7 x 18.5 x 6.2	IMA193199AA	0.22	0.28	27	22	100	100
2110~2170	12.7 x 18.5 x 6.2	IMA211217AA	0.22	0.28	26	22	100	100
2110~2170	12.7 x 12.7 x 6.2	IMA211217AK	0.22	0.28	27	22	120	10
2250~2300	12.7 x 28.5 x 6.2	IMA225230UA	0.2	0.25	26	22	100	100
2300~2400	12.7 x 18.5 x 6.2	IMA230240AA	0.22	0.28	26	22	100	100
2620~2690	12.7 x 18.5 x 6.2	IMA262269AA	0.2	0.25	26	22	100	100
2900~3100	12.7 x 18.5 x 6.2	IMA290310AA	0.25	0.3	20	27	100	80
3400~3600	12.7 x 18.5 x 6.2	IMM340360AA	0.2	0.25	26	22	100	100
3600~3800	12.7 x 18.5 x 6.2	IMM360380AA	0.2	0.25	26	22	100	100
4400~5850	12.7 x 18.5 x 7.0	IMA440585TH	0.4	0.6	20	18	50	20
4400~4560	12.7 x 18.5 x 6.2	IMA440456UA	0.3	0.35	22	20	100	80
4400~5000	12.7 x 18.5 x 6.2	IMM440500AA	0.3	0.35	25	21	100	100
4800~5300	12.7 x 18.5 x 7.0	IMA480530HK	0.3	0.4	22	20	30	10
4890~4910	12.7 x 18.5 x 6.2	IMM489491AA	0.25	0.3	25	21	100	100
5030~5200	12.7 x 18.5 x 6.2	IMA503520AA	0.3	0.5	18	15	100	80
5091~5850	12.7 x 18.5 x 6.2	IMM509585UQS	0.45	0.55	18	15	300	100
5100~5600	12.7 x 12.7 x 7.0	IMA510560HK	0.3	0.4	23	20	30	5
5200~5900	12.7 x 18.5 x 7.0	IMM520590AQ	0.35	0.45	18	15	100	100
5850~6425	12.7 x 12.7 x 7.0	IMA585642HK	0.3	0.4	20	18	30	10
7125~7750	12.7 x 18.5 x 7.0	IMA712775TQ	0.4	0.5	24	20	30	15
7900~8400	12.7 x 12.7 x 6.2	IMA790840AK	0.5	0.6	20	17	30	10
8000~8500	12.7 x 12.7 x 7.0	IMA800850HK	0.3	0.35	24/22	22/20	30	5
8500~9600	12.7 x 12.7 x 6.2	IMA850960AK	0.5	0.6	22	18	30	10
8700~9700	12.7 x 18.5 x 7.0	IMA870970TH	0.35	0.4	23	21	50	20
9200~10000	12.7 x 12.7 x 6.2	IMA9201000AKS	0.45	0.55	22	18	30	15
9200~9600	12.7 x 12.7 x 6.2	IMA920960TQ	0.5	0.6	21	18	20	20
9400~9500	12.7 x 18.5 x 7.0	IMA940950TH	0.4	0.45	22	20	40	20



■ Circulator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
1805~1880	12.7 x 12.7 x 6.2	CMA180188AA	0.22	0.28	27	22	120	
1930~1990	12.7 x 12.7 x 6.2	CMA193199AA	0.22	0.28	27	22	100	
2110~2170	12.7 x 12.7 x 6.2	CMA211217AA	0.22	0.28	27	22	100	
2300~2400	12.7 x 12.7 x 6.2	CMA230240AA	0.22	0.28	26	22	100	
2570~2620	12.7 x 12.7 x 6.2	CMA257262AA	0.22	0.28	26	22	100	
2620~2690	12.7 x 12.7 x 6.2	CMA262269AA	0.22	0.28	26	22	100	
2900~3100	12.7 x 12.7 x 6.2	CMA290310AA	0.25	0.3	27	20	100	
3000~4000	12.7 x 12.7 x 6.2	CMM300400AA	0.4	0.5	15	13.5	100	
3100~3500	12.7 x 12.7 x 6.2	CMA310350AA	0.25	0.3	24	20	100	
3400~3600	12.7 x 12.7 x 6.2	CMM340360AA	0.2	0.25	26	22	100	
3600~3800	12.7 x 12.7 x 6.2	CMM360380AA	0.2	0.25	26	22	100	
4000~5000	12.7 x 12.7 x 7.0	CMA400500AH	0.4	0.5	20	18	50	
4400~5900	12.7 x 12.7 x 7.0	CMA440590AH	0.4	0.6	18	16	50	
5000~6000	12.7 x 12.7 x 7.0	CMA500600AH	0.4	0.5	20	18	50	
5150~5850	12.7 x 12.7 x 7.0	CMA515585AH	0.3	0.4	22	18	30	
5400~5900	12.7 x 12.7 x 7.0	CMA540590AH	0.35	0.4	22	20	30	
5500~7500	12.7 x 12.7 x 7.0	CMA550750AH	0.35	0.4	22	20	40	
5700~5900	12.7 x 12.7 x 7.0	CMA570590AH	0.35	0.4	22	20	50	
6000~7000	12.7 x 12.7 x 7.0	CMA600700AH	0.25	0.3	23	20	30	
7125~7750	12.7 x 12.7 x 7.0	CMA712775AQ	0.4	0.5	24	20	30	
7900~8400	12.7 x 12.7 x 6.2	CMA790840AA	0.5	0.6	20	17	30	
8000~10000	12.7 x 12.7 x 7.0	CMA08001000AH	0.4	0.5	20	22	30	
8700~9700	12.7 x 12.7 x 7.0	CMA870970AH	0.35	0.4	23	21	50	
8900~9300	12.7 x 12.7 x 7.0	CMA890930AA	0.4	0.5	22	20	30	
8900~9300	12.7 x 12.7 x 7.0	CMA890930AH	0.4	0.5	22	20	30	
9~10GHz	12.7 x 12.7 x 7.0	CMA09001000AQ	0.35	0.45	22	20	10	
9.5~10GHz	12.7 x 12.7 x 7.0	CMA09501000AH	0.35	0.4	22	20	40	
9300~9500	12.7 x 12.7 x 7.0	CMA930950AH	0.4	0.5	22	20	30	
10~11GHz	12.7 x 12.7 x 7.0	CMA10001100AH	0.5	0.6	18	20	30	
11.7~13.6GHz	12.7 x 12.7 x 7.0	CMA11701360AH	0.4	0.5	20	18	30	

Drop-in Type (0.75 inch)



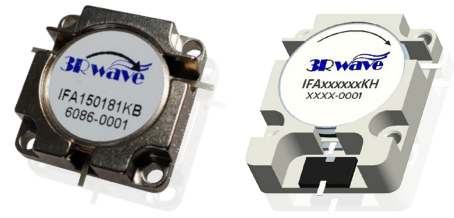
Isolator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
617~652	19.05 x 25.4 x 7.0	IMA061065AQ	0.35	0.45	20	22	100	100
698~806	19.05 x 25.4 x 7.0	IHA069080AQ	0.4	0.5	21	18	200	100
773~803	19.05 x 25.4 x 7.0	IHA077080AC	0.2	0.25	26	23	200	100
869~894	19.05 x 25.4 x 7.0	IHA086089UC	0.25	0.28	26	22	150	100
1200~1300	19.05 x 25.4 x 8.0	IHA120130AE	0.3	0.35	24	21	200	100
1350~1400	19.05 x 25.4 x 8.0	IHA135140AB	0.35	0.4	23	20	100	100
1470~1520	19.05 x 25.4 x 8.0	IHA147152UB	0.2	0.3	26	22	175	80
1500~1700	19.05 x 25.4 x 8.0	IHA150170UB	0.3	0.5	23	20	175	100
1520~1670	19.05 x 25.4 x 8.0	IHA152167UB	0.3	0.35	23	20	175	100
1710~1755	19.05 x 25.4 x 8.0	IHA171175AB	0.23	0.28	26	22	175	100
2300~2400	19.05 x 25.4 x 8.0	IHA230240AB	0.2	0.25	26	22	200	100
2620~2690	19.05 x 25.4 x 8.0	IHA262269UB	0.2	0.25	26	22	200	100
3000~3500	19.05 x 25.4 x 8.0	IHM300350AB	0.3	0.4	22	18	250	100
3600~3800	19.05 x 25.4 x 8.0	IHA360380AA	0.2	0.25	26	22	200	100

Circulator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
728~757	19.05 x 19.05 x 7.0	CHA072075AC	0.25	0.32	25	21	120	
773~803	19.05 x 19.05 x 7.0	CHA077080AC	0.25	0.32	25	21	120	
869~894	19.05 x 19.05 x 7.0	CHA086089AC	0.25	0.28	26	22	150	
1000~1150	19.05 x 19.05 x 8.0	CHA100115AQ	0.25	0.3	23	20	200	
1500~1700	19.05 x 19.05 x 8.0	CHA150170AB	0.3	0.5	23	20	200	
1920~2170	19.05 x 19.05 x 8.0	CHA192217AB	0.25	0.3	24	21	250	
2300~2400	19.05 x 19.05 x 8.0	CHA230240AB	0.2	0.25	26	22	175	
2620~2690	19.05 x 19.05 x 8.0	CHA262269AB	0.2	0.25	26	22	200	
3000~3500	19.05 x 19.05 x 8.0	CHM300350AB	0.3	0.4	22	18	250	
3400~3600	19.05 x 19.05 x 8.0	CHM340360AA	0.2	0.25	26	22	200	
3600~3800	19.05 x 19.05 x 8.0	CHM360380AA	0.2	0.25	26	22	200	

Drop-in Type (1 inch)



■ Isolator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
728~757	25.4 x 31.7 x 7.5	IFA072075AA	0.2	0.25	26	21	200	100
824~960	25.4 x 31.7 x 7.5	IFA082096AA	0.4	0.5	18	15	200	100
869~894	25.4 x 31.7 x 7.5	IFA086089AA	0.18	0.25	26	22	200	100
869~960	25.4 x 31.7 x 7.5	IFA086096AA	0.25	0.3	25	21	200	100
900~1000	25.4 x 31.7 x 7.5	IFA090100AA	0.25	0.3	25	21	250	150
925~960	25.4 x 31.7 x 7.5	IFA092096AA	0.18	0.25	26	22	250	100
970~1100	25.4 x 31.7 x 7.5	IFA097110KA	0.25	0.3	24	20	200	150
1000~1160	25.4 x 31.7 x 7.5	IFA100116KA	0.3	0.35	22	18	250	150
1475~1500	25.4 x 31.7 x 7.5	IFA147150AA	0.2	0.25	26	22	200	100
1805~1990	25.4 x 31.7 x 8.0	IFA180199AA	0.25	0.3	25	21	200	100

■ Circulator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
728~757	25.4 x 25.4 x 7.5	CFA072075AA	0.2	0.25	26	21	200	
773~803	25.4 x 25.4 x 7.5	CFA077080AA	0.2	0.25	25	22	200	
800~1000	25.4 x 25.4 x 7.5	CFA080100AA	0.4	0.6	16	20	300	
869~894	25.4 x 25.4 x 7.5	CFA086089AA	0.18	0.25	26	22	200	
869~960	25.4 x 25.4 x 7.5	CFA086096AA	0.25	0.3	25	20	200	
925~960	25.4 x 25.4 x 7.5	CFA092096AA	0.18	0.25	26	22	250	
960~1240	25.4 x 24.5 x 10	CFA096124AH	0.45	0.5	18	20	200	
1805~1990	25.4 x 25.4 x 8.0	CFA180199AA	0.25	0.3	25	21	200	

Drop-in Type (1.25, 1.5, 2 inch)



1.25 inch

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
420~470	31.75 x 38.1 x 11	IDA042047UQ	0.3	0.4	23	20	400	100
428~438	31.75 x 31.75 x 11	CDA042043AQ	0.25	0.3	25	22	100	
865~965	31.75 x 31.75 x 11	CDA086096AB	0.2	0.25	26	22	550	
960~1215	31.75 x 38.1 x 11	IDA096121AB	0.3	0.4	21	18	300	100

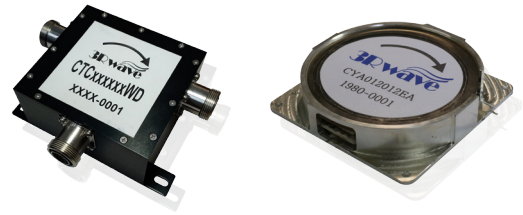
1.5 inch

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
380~420	38.1 x 44.45 x 11.5	IBA038042AA	0.4	0.5	20	16	200	100
420~470	38.1 x 38.1 x 11.5	CBA042074AA	0.3	0.35	23	20	300	
698~960	38.1 x 44.45 x 11.5	IBA096096AA	0.4	0.5	18	15	300	100
811~1240	38.1 x 44.45 x 11.5	IBA081124AA	0.4	0.6	11	13	200	100
900~930	38.1 x 38.1 x 11.5	CBA090093AA	0.15	0.2	25	22	600	
900~1300	38.1 x 44.45 x 11.5	IBA093130KA	0.4	0.5	18	15	300	100

2 inch

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
172.5~202.5	50.8 x 57.15 x 15	ISA017020AB	0.5	0.7	20	15	200	100
180~210	50.8 x 57.15 x 15	ISA018021AB	0.5	0.7	20	15	200	100
216~236	50.8 x 57.15 x 15	ISA021023AB	0.35	0.45	20	15	150	100
273~275	50.8 x 57.15 x 15	ISA027027AB	0.2	0.25	22	17	150	100
300~330	50.8 x 57.15 x 15	ISA030033AB	0.25	0.3	24	20	200	100
330~360	50.8 x 57.15 x 15	ISA033036AB	0.25	0.3	24	20	200	100

High Power Unit



Frequency Band (MHz)	Type	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
80.25~82.25	Coaxial	CYC008008WD	0.25	0.5	23	15	2500	
80.25~82.25	Coaxial	CYC008008WE1	0.25	0.5	23	15	5000	
121.8~123.1	Coaxial	CYC012012WD	0.25	0.3		21	10000	
123.48	Drop-in	CYA012012EB	0.2	0.3	25	20	2000	
160.5~164.5	Coaxial	CVC016016WD	0.2	0.3	23	18	2500	
160.5~164.5	Coaxial	CYC016016WE3	0.25	0.5	23	15	7500	
320-330	Coaxial	CTC032033WD	0.25	0.3	25	20	2500	
351-353	Coaxial	CVC035035WE	0.2	0.3	23	18	10000	
900-930	Drop-in	CDA090093HB	0.2	0.25	24	21	1000	
2500-2540	Drop-in	CFA250254AH	0.2	0.25	26	22	1000	

Drop-in Type (0.25 inch)



Frequency Band (MHz)	Type	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max (dB)	Isolation/RL (typical, dB)	Isolation/RL (min, dB)	Forward cw Power (w)	Reverse cw Power (w)
11750~13750	Drop-in	IPA11751375AA		0.5		20	1	1
14700~15400	Drop-in	IPA14701540AA	0.5			15	1	1
17300~21200	Drop-in	IPA17302120AA		0.75	18 / 15	15 / 10	1	1

SMD Type

(0.4 inch, 0.5 inch, 0.75 inch, 1 inch)

Isolator

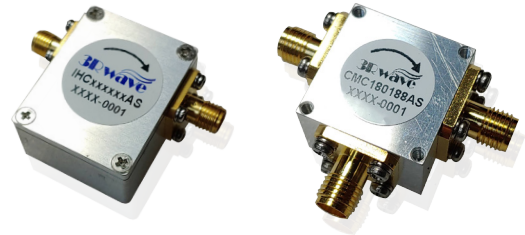
Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max. (dB)	Isolation/Return Loss (typical, dB)	Isolation/Return Loss (min, dB)	Foward CW Power (w)	Reverse CW Power (w)
88~108	23 x 20.9 x 7.3	IRL008010YA		1.2		10	10	5
100~105	23 x 20.9 x 7.3	IRL010010YA		1.2		15	10	5
151.5~161.5	23 x 20.9 x 7.3	IRL015016YA		1		14	11	5
405~415	23 x 20.9 x 7.3	IRL040041YA		1		15	10	5
470~602	23 x 20.9 x 7.3	IRL047060YA		1.2		15	10	5
722~728	28.3 x 32 x 8.5	IFB072072AS	0.2	0.25	25	22	50	50
728~757	14 x 14 x 6.2	ILB072075EP	0.3	0.35	25	20	10	5
758~803	28.3 x 34.4 x 8.5	IFB075080US	0.2	0.25	25	22	50	50
860~960	21.2 x 19.5 x 8	IHB086096AK	0.35	0.4	22	18 (16)	80	8
869~894	14 x 14 x 6.2	ILB086089EP	0.25	0.3	20	25	10	5
925~960	21.2 x 24 x 8	IHB092096AA	0.25	0.3	26	22	100	20
1240~1300	21.1 x 19.5 x 8	IHB124130AK	0.25	0.3	24	20	100	10
1805~1880	21.2 x 24.5 x 8.5	IHB180188AB	0.2	0.25	25	22	50	50
1805~1880	21.2 x 26.85 x 8.5	IHB180188UB	0.2	0.25 (0.35)	25	22 (18)	50	50
1805~1880	13.42 x 13 x 7	IMB180188CK	0.25	0.3 (0.35)	25	21 (20)	80	8
1930~1995	13.42 x 13 x 7	IMB193199CK	0.25	0.3 (0.35)	25	22 (20)	80	8
1995~2020	21.2 x 24.5 x 8.5	IHB199202AB	0.15	0.2	25	22	50	50
2110~2170	16.5 x 20 x 7	IKB211217BS	0.25	0.3 (0.35)	26	22 (20)	100	20
2110~2170	12.7 x 12.7 x 6.2	IMB211217AP	0.25	0.3	25	20	10	5
2110~2170	13.42 x 13 x 7	IMB211217CK	0.25	0.3 (0.35)	25	21 (20)	80	8
2110~2170	13.42 x 14.9 x 7	IMB211217CS	0.25	0.3 (0.35)	25	21 (20)	80	8
2300~2400	13.42 x 13 x 7	IMB230240CK	0.25	0.3 (0.35)	25	21 (20)	80	8
2330~2370	21.2 x 19.5 x 8	JMB233237CK	0.25	0.3	24	20	100	10
2345~2360	13.42 x 13 x 7	IMB234236CK	0.25	0.3 (0.35)	25	22 (20)	80	8
2400~2500		IMB240250CK	0.25	0.3 (0.35)	25	22 (20)	80	8
2620~2690	21.2 x 26.85 x 8.5	IHB262269UB	0.2	0.25 (0.35)	25	22 (18)	50	50
3300~3800	13.42 x 13 x 7	IMB330380CK	0.3	0.35 (0.4)	23	20 (18)	50	8
3400~3600	13.42 x 13 x 7	IMB340360CK	0.25	0.3 (0.35)	25	22 (20)	80	8
3480~3520		IMB348352CK	0.25	0.3 (0.35)	25	22 (20)	80	8
3500~3700	13.42 x 13 x 7	IMB350370CK	0.25	0.3	21	24	80	8



■ Circulator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max. (dB)	Isolation/Return Loss (typical, dB)	Isolation/Return Loss (min, dB)	Foward CW Power (w)	Reverse CW Power (w)
575~655		CFB057065AS	0.25	0.3	22	20	50	
758~821		CKB075082BS	0.45	0.6	20	17	10	
768~788		CHB076078AA	0.28	0.35	25	21	100	
791~821		CHB079082AA	0.28	0.35	25	22	100	
869~894		CHB086089AA	0.25	0.3	26	22	100	
925~960		CHB092096AA	0.25	0.3	26	22	100	
1475.9~1510.9		CMB147151CS	0.3	0.35	25	21	100	
1475~1525		CHB147152AS	0.25	0.3	24	22	200	
1805~1880	16.5 × 16.5 × 7	CKB180188AA	0.25	0.3	26	22	80	
1830~1850		CKB183185BS	0.25	0.3	26	22	150	
1880~2025		CKB188202AS	0.25	0.3	25	21	150	
1920~1980		CMB192198CS	0.25	0.3	25	21	100	
2110~2170	16.5 × 16.5 × 7	CKB211217AS	0.25	0.35	26	20	150	
2240~2300		CMB224230CS	0.25	0.3	25	21	100	
2300~2400		CQB230240AC	0.25	0.3	25	22	80	
2400~2500		CMB240250CS	0.2	0.25	25	23	120	
2410~2490		CMB241249CS	0.25	0.32	25	21	120	
2490~2690		CMB269269CS	0.25	0.32	25	21	100	
2500~2640	16.5 × 16.5 × 7	CKB250264BS	0.25	0.3	25	22	120	
2620~2690	16.5 × 16.5 × 7	CKB262269AS	0.25	0.32	26	22	150	
2700~3100		CMB270310CS	0.3	0.35	24	21	80	
3050~3550		CMB305355CS	0.25	0.3	22	20	100	
3250~3450		CMB325345CS	0.25	0.32	25	22	80	
3400~3600		CQB340360AB	0.3	0.35	25	22	80	
3500~3650		CMB350365CS	0.25	0.32	25	22	80	
3500~3700		CQB350370AB	0.3	0.35	25	22	80	
3600~3800		CQB360380AB	0.3	0.35	25	22	80	
4400~5000		CMB440500CS	0.3	0.35	25	21	100	
4800~5000		CQB480500AB	0.3	0.35	24	21	80	
15000~19000		CAB15001900AA		0.5		18	10	

Coaxial Type



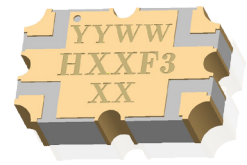
Isolator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max. (dB)	Isolation/Return Loss (typical, dB)	Isolation/Return Loss (max, dB)	Foward CW Power (w)	Reverse CW Power (w)
800~1000	31.75 x 31.75 x 15	IFC080100AA	0.3	0.35	25	20	35	10
2700~2900	25.4 x 25.4 x 12.7	IFC270290EA	0.3	0.4	26	20	10	0.1
1700~1900	25.4 x 25.4 x 15	IHC170190AA	0.3	0.35	25	20	35	10
1900~2100	25.4 x 25.4 x 15	IHC190210AA	0.3	0.35	25	20	35	10
2620~2690	36.8 x 34 x 19.8	IHC262269AN	0.3	0.4	20	18	150	50
2500~2700	31.75 x 31.75 x 15	IMC250270AA	0.3	0.35	25	20	35	10
7000~8000	20 x 20 x 14.5	IMC700800KS	0.4	0.5	24	20	30	10
7700~8600	20 x 20 x 14.5	IMC770860KS	0.4	0.5	24	20	30	10
8400~8500	20 x 20 x 14.5	IMC840850KS	0.5	0.6	24	20	30	10

Circulator

Frequency Band (MHz)	Dimension (mm)	Part Number (Clockwise)	Insertion Loss (typical, dB)	IL max. (dB)	Isolation/Return Loss (typical, dB)	Isolation/Return Loss (max, dB)	Foward CW Power (w)	Reverse CW Power (w)
1805~1880	20 x 20 x 14.5	CMC180188AS	0.35	0.4	24	21	100	
2496~2700	36.8 x 33 x 19.8	CHC249270AN	0.35	0.45	22	18	150	
2496~2700	20 x 20 x 14.5	CMC249270AS	0.3	0.4	25	21	50	
2500~2700	20 x 20 x 14.5	CMC250270AA	0.3	0.35	25	20	35	
2500~2700	25.4 x 25.4 x 19.05	CMC250270AN	0.35	0.4	23	20	35	
2800~3300	20 x 20 x 14.5	CMC280330AS	0.35	0.4	21	18	30	
5000~8000	20 x 20 x 14.5	CMC500800AS	0.4	0.45	20	18	50	
7145~7235	25.4 x 25.4 x 19.05	CMC714723AN	0.45	0.5	23	21	35	
11700~13600	20 x 20 x 14.5	CMC11701360AS	0.3	0.4	24	20	40	

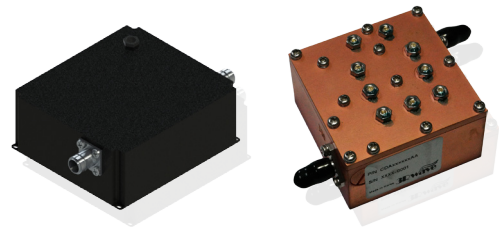
Hybrid Coupler



Frequency Band (MHz)	Dimension (mm)	Part Number	Phase (Degrees)	IL max. (db)	Amplitude Balance (dB, Max, \pm)	Isolation/Return Loss (min, dB)	Foward CW Power (w)	Reverse CW Power (w)
800~1000		H09P3A	90 ± 5	0.4	0.3	20	28	
3300~3800		H35F3A	90 ± 4	0.25	0.3	23	25	

Filter

설계 TYPE	TYPE	Part Number	Band Number	Passband Frequency (MHz)	Insertion Loss (max, dB)	Return Loss (min, dB)	VSWR	Forward Power (W)	Dimension (mm)
AIR CAVITY	Triplexer	FAT005041A1		30~88, 225~290, 310~512	2.2 max.	14 Min.		100	94 x 94 x 30
AIR CAVITY	BPF	FABBHP01	H	7015~8025	2	15		0.1	39.0 x 65.0 x 21.0
AIR CAVITY	BPF	FABBXP01	X	8995~10005	2	15		0.1	39.0 x 65.0 x 21.0
AIR CAVITY	BPF	FAB355370A01		3550~3700	1	18		2	24.0 x 90.0 x 28.0
AIR CAVITY	BPF	FAB050100A01		500~1000	1.5	15		1	106 x 168 x 111.0
AIR CAVITY	BPF	FABB42A01	42	3400~3600	1.0	18		10	93.5 x 43.5 x 30.8
AIR CAVITY	BPF	FABB43A01		3600~3800	1.0 max.	18 Min.		10	67.0 x 67.0 x 27.0
AIR CAVITY	BPF	FABB42A03		3400~3600	1.0 max.	18 Min.		10	67.0 x 67.0 x 27.0
AIR CAVITY	BPF	FABB48A03		3550~3700	0.8 max.	18 Min.		20	105 x 47 x 30
AIR CAVITY	DUP	FAXB68A01		753~758, 698~703	1.0	20		10	117 x 120 x 44
AIR CAVITY	DUP	FAXB13A01		746~756, 777~787	1.0	20		40	164 x 169 x 66
AIR CAVITY	DUP	FAXB03A01		1710~1785, 1805~1880	1.3	20		50	126 x 106 x 35
AIR CAVITY	DUP	FAXB68A01		753~758, 698~703	1.0 max.	20 Min.		10	117 x 120 x 44
AIR CAVITY	DUP	FAXB13A01		746~756, 777~787	1.0 max.	20 Min.		40	164 x 169 x 66
AIR CAVITY	DUP	FAXB03A01		1710~1785, 1805~1880	1.3 max.	20 Min.		50	126 x 106 x 35
AIR CAVITY	DUP	FAX440585A1		4400~4900, 5250~5850	0.5 max.	18 Min.		50	75.0 x 90.0 x 25.0
AIR CAVITY	DUP	FAXU14401535A1		14400~14830, 5150~5350	1.2 max.	18.0 Min.		50	75.0 x 90.0 x 46.0
AIR CAVITY	DUP	FAXB01A02		1920~1980, 2110~2170	1.2 max.	20 Min.		10	91.5 x 99.0 x 34.0
AIR CAVITY	DUP	FAXB03A02		1710~1785, 1805~1880	1.2 max.	20 Min.		10	160 x 223 x 38.0
AIR CAVITY	DUP	FAXB07A03		2500~2570, 2620~2690	1.2 max.	20 Min.		10	115 x 122 x 32.0
AIR CAVITY	DUP	FAXB20A01		832~862, 791~821	1.2 max.	20 Min.		10	160 x 223 x 58.0
AIR CAVITY	DUP	FAXB28A01		703~748, 758~803	1.2 max.	20 Min.		10	160 x 223 x 58.0
AIR CAVITY	LPF	FAL1500A01		DC~1500	1.5	15		10	113 x 127 x 22
AIR CAVITY	LPF	FAL1800A01		DC~1800	1.5	15		10	127.0 x 22.0 x 20.0
AIR CAVITY	LPF	FAL2950A01		DC~2950	1.5	15		10	100.0 x 22.0 x 20.0
AIR CAVITY	LPF	FAL3100A01		DC~3100	1.5	15		10	100.0 x 22.0 x 20.0
AIR CAVITY	LPF	FAL3700A01		DC~3700	1.5	15		10	80.0 x 22.0 x 20.0
AIR CAVITY	LPF	FAL4400A01		DC ~ 4400	1.5	15		10	80.0 x 22.0 x 20.0



설계 TYPE	TYPE	Part Number	Band Number	Passband Frequency (MHz)	Insertion Loss (max, dB)	Return Loss (min, dB)	VSWR	Forward Power (W)	Dimension (mm)
AIR CAVITY	Multiplexer	FAMB03B08A01	03, 08	880-915, 925-960, 1710-1785, 1805-1880	1.5	17		30	110.0 x 184.0 x 44.0
AIR CAVITY	Multiplexer	FAMB02B10A01	02, 10	1710-1770, 1850-1910, 1930-1990, 2110-2170	1.5	17		30	110.0 x 184.0 x 44.0
AIR CAVITY	Multiplexer	FAMB02B05A01	02, 05	824-849, 869-894, 1850-1910, 1930-1990	1.5	17		30	110.0 x 184.0 x 44.0
AIR CAVITY	Triplexer	FAT005041A1		30-88, 225-290, 310-512	2.2	14		100	94 x 94 x 30
AIR CAVITY	Triplexer	FAT092458A01		902-928, 2400-2485, 5725-5875	0.8	18		2	150 x 80.0 x 25.0
Ceramic	BPF	FCB3975A01		3875-4075	2		1.5:1	1	10.8 x 5.5 x 4.0
Ceramic	BPF	FCB3600A01		3500-3700	3		1.5:1	1	10.8 x 6.10 x 4.0
Ceramic	BPF	FCB3575A01		3500-3650	3.2		1.5:1	1	10.8 x 6.15 x 4.0
Ceramic	BPF	FCB3400A01		3300-3500	3.2		1.5:1	1	10.8 x 6.4 x 4.0
Ceramic	BPF	FCB3350A01		3300-3400	3		1.5:1	1	10.8 x 6.55 x 4.0
Ceramic	BPF	FCB3975A01		3875-4075	2.0 Max.		1.5:1 max.	1	10.8 x 5.5 x 4.0
Ceramic	BPF	FCB3600A01		3500-3700	3.0 Max.		1.5:1 max.	1	10.8 x 6.10 x 4.0
Ceramic	BPF	FCB3575A01		3500-3650	3.2 Max.		1.5:1 max.	1	10.8 x 6.15 x 4.0
Ceramic	BPF	FCB3400A01		3300-3500	3.2 Max.		1.5:1 max.	1	10.8 x 6.4 x 4.0
Ceramic	BPF	FCB3350A01		3300-3400	3.0 Max.		1.5:1 max.	1	10.8 x 6.55 x 4.0
LC	BRF	FLR085111A01		DC-85, 111-200	3.0 max.	16.0 Min.		2	12 x 19x 7.0
LC	LPF	FLL0030A01		DC-30	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0040A01		DC-40	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0050A01		DC-50	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0100A01		DC-100	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0130A01		DC-130	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0400A01		DC-400	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0500A01		DC-500	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0100A02		DC-100	1.5	15		2	110 x 50 x 26
LC	LPF	FLL0400A02		DC-400	1.5	15			



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