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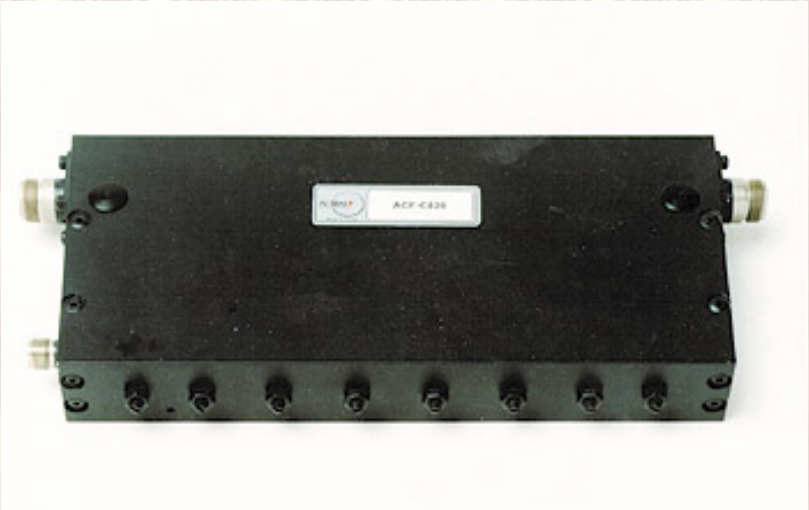
FILTER

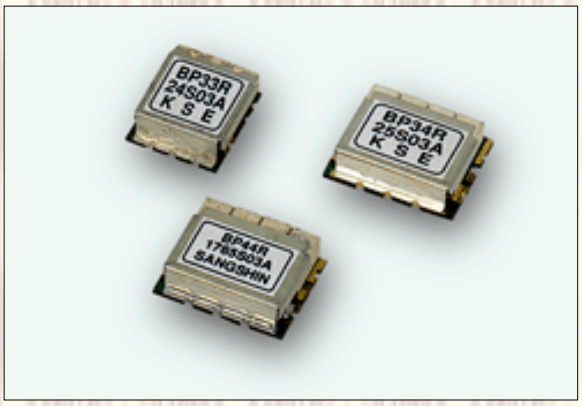
Ceramic Filters Catalog pdf.

Bandpass Filter.



Model No.	ACF-C820
Passband	824 MHz - 849 MHz
Bandwidth	25 MHz
Isertion Loss	Max 1.0 dB
Flatness in Full Band	±0.3 dB
Group Delay	Max 20 ns at Passband
Return Loss	Min 18 dB
Maximum power Input	500 Watts
Coupling Value	30 ± 1 dB
Connector Type(I/O)	Type-N (Female)
Coupling Port	TNC (Female)
Temperature	-30 °C to +60 °C
Material	Aluminium
Dimension	265mm×112mm×32mm
Weight	980 gram

[Band Pass Filter]



- **Brand Name**: SANGSHIN
- **Product Name**: Band Pass Filter
- Key Specifications/Special Features:

Part No.	Center Freq Fo(MHz)	Bandwidth (MHz)	Insertion Loss (dB) max	Ripple (dB) max	VSWR max	Attenuation (dB) min (MHz)
BP62R886P01	886.0	f_o±0.5	2.2	0.5	2.0	25(f_o±45)
BP62R931P01	931.0	f_o±0.5	2.2	0.5	2.0	25(f_o±45)
BP62R914P01	914.0	f_o±0.5	2.2	0.5	2.0	25(f_o±25)
BP62R959P01	959.5	f_o±0.5	2.2	0.5	2.0	25(f_o±45)
BP63R915P25A	915.0	f_o±12.5	2.0	0.8	2.0	45(810MHz)
BP64R836P30A	836.5	f_o±15	2.2	0.8	1.8	18(f_o±32.5)
BP64R881P30A	881.5	f_o±15	2.2	0.8	1.8	18(f_o±32.5)
BP52R914S01A	914	f_o±0.5	2.5	0.5	2.0	24(f_o±45)
BP52R959S01A	959	f_o±0.5	2.5	0.5	2.0	24(f_o±45)
BP52R886S02A	886.0	f_o±1.0	2.5	0.5	2.0	24(f_o±45)
BP52R931S02A	931.0	f_o±1.0	2.5	0.5	2.0	24(f_o±45)
BP62R914S01A	914	f_o±0.5	2.2	0.5	1.5	24(f_o±45)
BP62R959S01A	959	f_o±0.5	2.2	0.5	1.5	24(f_o±45)
BP62R903S01A	903	f_o±0.5	2.2	0.5	1.5	15(f_o±45)
BP62R927S01A	927	f_o±0.5	2.2	0.5	1.5	15(f_o±24)
BP32R766S03A	766.5		2.5	1.0	1.8	
BP32R1775S10A	1775	f_o±5	3.0	1.0	1.8	22(at 1865)
BP32R1855S30A	1855	f_o±15	2.5	1.0	1.8	35(at 1695)
BP32R2310S40A	2310	f_o±20	2.5	1.0	1.8	12(at 2380)
BP32R2320S20A	2320	f_o±10	2.5	1.0	1.8	10(at 2380)
BP32R2155S30A	2155	f_o±15	2.5	1.0	1.8	23(at 2030)
BP33R881S25A	881.5	f_o±12.5	2.5	1.0	1.8	53(at 779)
BP64R836S30A	836.5	f_o±15	3.0	1.2	1.7	18(f_o±32.5)
BP64R881S30A	881.5	f_o±15	3.0	1.2	1.7	18(f_o±32.5)
BP34R1765S10A	1765	f_o±5	5.5	1.0	1.8	12(f_o±20)
BP34R1765S30A	1765	f_o±15	3.5	1.0	1.8	30(f_o±90)
BP34R1840S60A	1840	f_o±30	3.0	1.5	1.7	30(at 1780)
BP34R1855S30A	1855	f_o±15	3.5	1.0	1.8	30(f_o±90)
BP34R1880S60A	1880	f_o±30	2.5	1.0	1.5	18(f_o±100)
BP34R1950S60A	1950	f_o±30	3.0	1.0	1.8	38(f_o±160)
BP34R1960S60A	1960	f_o±30	2.5	0.7	1.4	45(f_o±130) 20(f_o±100)
BP34R2140S60A	2140	f_o±30	3.0	1.0	1.8	38(f_o±160)
BP34R2315S30A	2315	f_o±15	2.7	1.0	1.7	40(f_o±160)
BP34R2320S20B	2320	f_o±10	3.9	1.0	1.8	32(f_o±2260) 40(f_o±2460)
BP34R2385S30A	2385	f_o±15	2.7	1.0	1.7	40(f_o±160)
BP34R2390S20B	2390	f_o±10	3.9	1.0	1.8	32(f_o±2330) 40(f_o±2530)
BP34R2442S84A	2442	f_o±42	2.5	1.0	1.7	40(f_o±400)

BP55R1750S60A	1750	f_o±30	3.0	1.5	1.7	30(at 1810)
BP55R1765S10A	1765	f_o±5	5.0	1.0	1.8	20(f_o±20)
BP55R1765S30A	1765	f_o±15	3.0	1.3	1.6	40(f_o±80)
BP55R1855S10A	1855	f_o±5	5.0	1.0	1.8	20(f_o±20)
BP55R1855S30A	1855	f_o±15	3.8	1.3	1.6	40(f_o±80)
BP64R409S07A	409.5	f_o±3.5	3.0	0.8	1.7	30(at 423)
BP64R426S07A	426.5	f_o±3.5	3.0	0.8	1.7	30(at 413)
BP66R959S10A	959	f_o±5	3.5	0.8	1.8	55(at 915)
BP66R1410S29A	1410.76	f_o±14.5	3.0	1.0	1.5	18(f_o±34.5)
BP66R1755S10A	1755	f_o±5	10.0	1.0		22(at 1765)
BP66R1845S09A	1845	f_o±4.5	13	3		28(at 1855)
BP86R1474S05A	1474.3	f_o±2.5	12	2.8	2.0	15(f_o±10)

- **Primary Competitive Advantages:**

- Small and light
- Temperature compensation
- Low insertion loss

- High-frequency selectivity

- **Microwave Filter**

- IMT2000 series

Part No.	Center Ferq. f0(MHz)		Bandwidth(MHz)	Insertion Loss in BW (dB) max.	V.S.W.R in BW max.	Attenuation (dB) min(MHz)
DPX36R1950/2140S60A	Tx	1950	±30	2.0	1.8	42(Fr±30)
	Rx	2140	±30	2.5	1.8	50(Ft±30)
DPX47R1950/2140SA	Tx	1950	±30	2.2	1.8	42(Fr±30)
	Rx	2140	±30	2.4	2.0	50(Ft±30)
DPX59R1950/2140S60A	Tx	1950	±30	2.6	1.8	48(Fr±30)
	Rx	2140	±30	2.0	1.8	52(Ft±30)
BP34R1950S60A	1950		±30	3.0	1.8	38(2110M)
BP34R2140S60A	2140		±30	3.0	1.8	38(1980M)
BP45R1950S60A	1950		±30	3.0	1.5	40(2070M)
BP45R2140S60A	2140		±30	3.0	1.5	40(2260M)
BP66R1950S60A	Tx	1950	±30	3.0	2.0	45(Fr±30)
BP66R2140S60A	Rx	2140	±30	3.0	2.0	45(Ft±30)

- IF Frequency

Part No.	Center Ferq. f0(MHz)	Bandwidth (MHz)	Insertion Loss in BW (dB) max.	R.L in BW (dB) min.	Attenuation (dB) min.(MHz)
BPF45MS30A	45	±15	1.5	15	20(95M) 60(5M)
BPF160MSB	160	±2	6.5	15	30(145M) 50(480M)
BPF180MS20A	180	±10	5.0	15	40(F0±60)
BPF190MS20A	190	±10	5.0	15	40(F0±60)
BPF310MS20A	310	±10	6.0	12	40(F0±70)
BPF340MS20A	340	±10	7.0	12	40(F0±70)
BPF380MS20A	380	±10	7.0	12	40(F0±70)

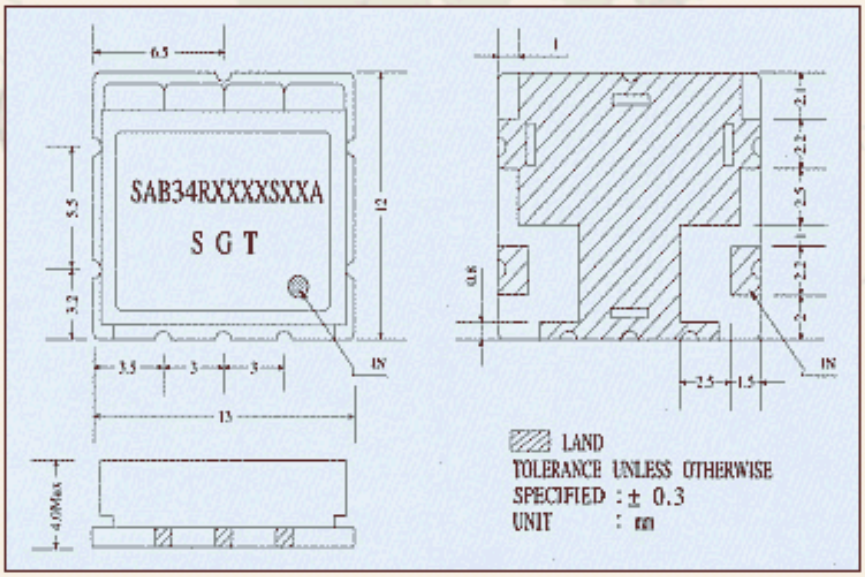
Product Code	Frequency Range(MHz)	Insertion Loss	VSWR (max.)	Attenuation(min.)
KFTCV0241-003	824~849	1.2	1.42 : 1	80 dB@869MHz
KFTCV0241-004	824~849	0.85	1.28 : 1	70 dB@869MHz
KFTCV0241-007	824~849	1.0	1.42 : 1	70 dB@869MHz
KFTCV02D1-007	824~849	0.7	1.28 : 1	57 dB@869MHz
KFTCV0241-001	835~845	0.85	1.28 : 1	80 dB@869MHz
KFTCV0241-002	835~845	1.2	1.28 : 1	80 dB@869MHz
KFTCV02D1-000	824~835 &845~849	1.45@824~835 1.65@845~849	1.22 : 1	65 dB@869MHz
KFTCV0251-005	835.275~845.125	1.0	1.22 : 1	3dB@fc ± 6.5MHz, 50dBc @ fc ± 29MHz
KFTCV0211-018	845~849	1.2	1.28 : 1	95 dB @ Tx Band
KFTCV0251-003	827.715~833.865	7.5	1.28 : 1	50 dBc @ fc ± 7.375MHz
KFTCV0251-002	845.295~848.985	8.0	1.28 : 1	25 dBc @ P.B ± 1.4MHz
KFTCV0211-003	869~894	0.4	1.28 : 1	60 dB @ 849MHz
KFTCV0211-004	869~894	0.7	1.22 : 1	80 dB @ 849MHz
KFTCV0221-006	869~894	3.0	1.28 : 1	13 dB @ 866MHz, 5dB @ 896MHz
KFTCV0211-011	870~880	0.5	1.22 : 1	65 dBC @ 849MHz
KFTCV0211-001	880~890	0.5	1.22 : 1	75 dBc @ 849MHz
KFTCV0221-002	872.715~878.865	7.5	1.5 : 1	50 dBc @ fc ± 7.375MHz
KFTCV0221-001	890.295~893.985	7.5	1.4 : 1	50 dBc @ fc ± 3.945MHz
KFTCV1341-001	890~915	1.0	1.28 : 1	65 dBc @ Tx Band
KFTCV1311-000	935~960	1.0	1.28 : 1	70 dBc @ Rx Band
KFTCV1311-001	935~960	0.7	1.3 : 1	70 dBc @ Rx Band
KFTCV0341-003	1,750~1,760	0.9	1.22 : 1	90 dB @ fc + 85MHz
KFTCV0351-000	1,760~1,770	1.0	1.22 : 1	50 dBc @ fc ± 85MHz
KFTCD0341-003	1,770~1,780	0.8	1.22 : 1	19 dB @ fc ± 10MHz
KFTCV0321-001	1,850~1,860	1.0	1.22 : 1	50 dBc @ fc ± 85MHz
KFTCV0221-003	1,805~1,880	0.9	1.28 : 1	75 dB @ fc - 57MHz
KFTCV0341-000	1,850~1,870	1.0	1.2 : 1	60dB @ 1,930~1,990 MHz
KFTDR2841-000	1,865~1,895	3.0	1.22 : 1	50 dB @ fc ± 7MHz
KFTDR2841-001	1,850~1,910	2.6	1.22 : 1	30 dB @ fc ± 9.15MHz
KFTDR0411-000	2,380~2,390	0.7	1.28 : 1	20 dBc @ fc ± 10MHz
KFTDR0441-002	2,310~2,320	1.2	1.28 : 1	20 dBc @ fc ± 10MHz
KFTLC0212-001	DC~630 KHz	0.5	1.42 : 1	35 dB @ 1.83MHz

KFTLC0272-000	DC~4.096	0.2	1.42 : 1	50 dB @ 18.43MHz
KFTLC0211-003	4.32~5.58	1.9	1.5 : 1	40 dB @ fc ± 1.89MHz
KFTLC0211-004	4.32~5.58	1.0	1.92 : 1	20 dB @ fc ± 2.5MHz
KFTLC0211-006	29.6~30.4	9.2dB@30MHz	1.5 : 1	30 dB @ fc ± 2.1MHz
KFTLC0471-000	33.2~43.6	1.0	1.42 : 1	50 dBc @ 93.4MHz
KFTLC0471-001	64.8~75.2	2.0	1.42 : 1	50 dBc @ 125MHz
KFTLC0211-000	94~98	6.0	1.5 : 1	40 dB @ fc ± 12.5MHz
KFTLC0271-000	114.37~115.6	6.0	1.5 : 1	30 dB @ 110.04MHz
KFTLC 0471-002	134.8~145.2	3.0	1.42 : 1	45 dB @ 195MHz

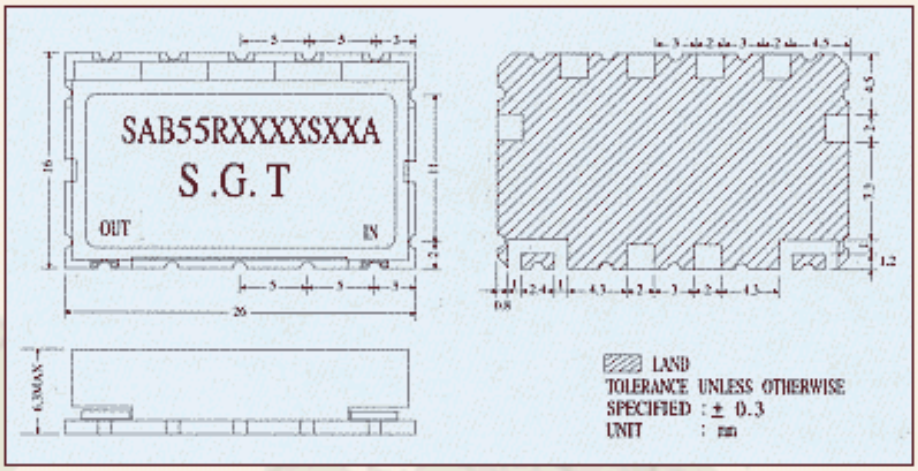
Band Pass Filter

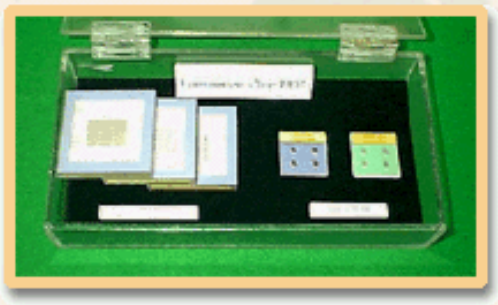
For PCS / E-AMPS / IMT-2000 Base Station

Dimensions 1



Dimensions 2



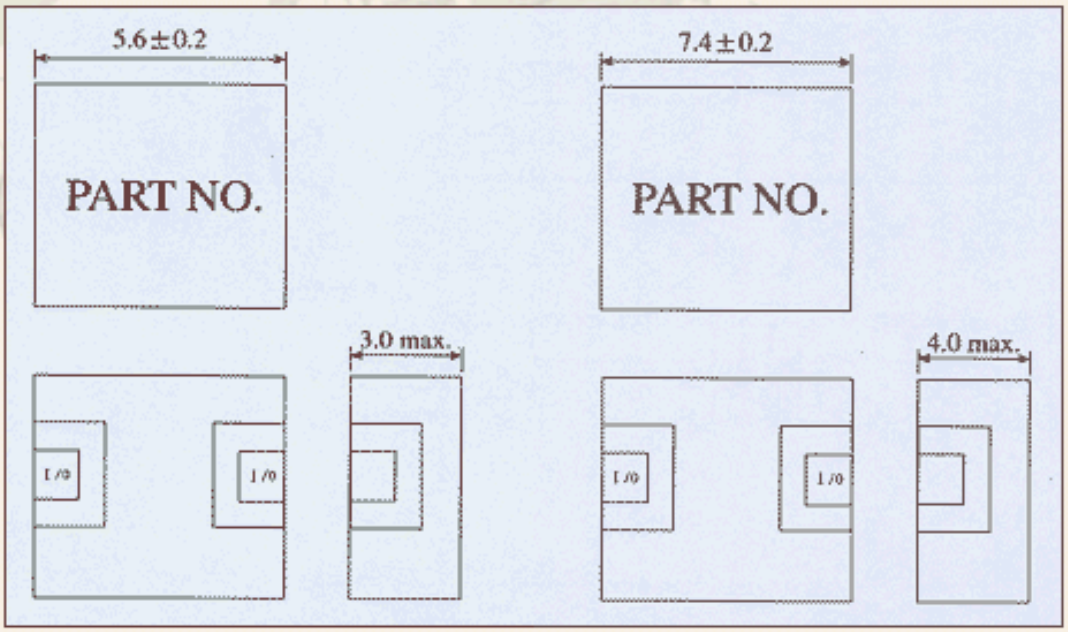


Specification

PART NO.	Center Freq. fo(MHz)	Bandwidth (MHz)	Insertion Loss in BW (dB)max.	V.S.W.R in BW min.	Attenuation (dB) min. (MHz)	Dimension
SAB34R1765S10A	1765	10	5.5	1.8	12(fo±20)	1
SAB34R1765S30A	1765	30	3.5	1.8	30(fo±90)	
SAB34R1840S60A	1840	60	3.0	1.8	30(at1780)	
SAB34R1855S30A	1855	30	3.5	1.8	30(fo±90)	
SAB34R1880S60A	1880	70	2.5	1.8	18(fo±100)	
SAB34R1950S60A	1950	60	3.0	1.8	35(fo±60)	
SAB34R1960S60A	1960	60	2.5	1.8	18(fo±100)	
SAB34R2140S60A	2140	60	3.0	1.8	35(fo±60)	
SAB34R2442S80A	2442	80	3.0	2	40(fo-100)	
SAB55R1750S60A	1750	60	3.0	1.8	30(at1810)	2
SAB55R1765S10A	1765	10	5.0	1.8	20(fo±20)	
SAB55R1765S30A	1765	30	2.7	1.8	40(fo±80)	
SAB55R1855S10A	1855	10	5.0	1.8	20(fo±20)	
SAB55R1855S30A	1855	30	2.7	1.8	40(fo±80)	
SAB64R836S30A	836.5	30	2.6	1.7	20(fo±32.5)	3
SAB64R881S30A	881.5	30	2.6	1.7	20(fo±32.5)	

(MONO TYPE)
For GSM, GPS, DECT, Cordless Phone

Dimensions 1

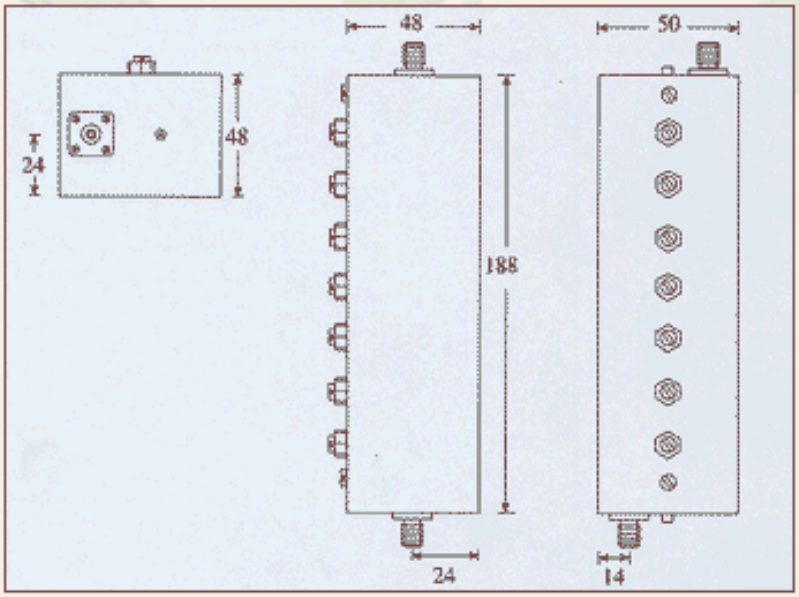


Specification

PART NO.	Center Freq. fo(MHz)	Bandwidth (MHz)	Insertion Loss in BW (dB)max.	V.S.W.R in BW max.	Attenuation (dB) min. (MHz)	Dimension
SMB32R1575S10A	1575.42	10	3.0	2.0	40(fo±100)	1
SMB32R1575S04A	1575.42	4	4.0	2.0	40(fo±100)	
SMB32R1890S20A	1890	20	2.5	2.0	20(fo±100)	
SMB42R2403S06A	2403.3	6	3.2	2.0	35(at 2475.3)	2
SMB42R2475S06A	2475.3	6	3.2	2.0	35(at 2403.3)	

Cavity Channel Filter For K-PCS

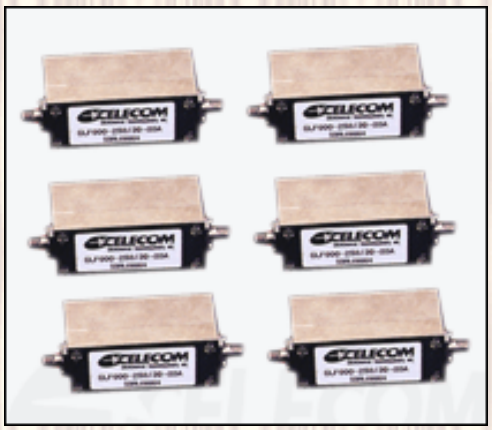
Dimensions 1



Specification

Frequency Range	1750~1780 MHz, 1840~1870 MHz
Bandwidth	1.2 MHz
Insertion Loss(max)	1.9 dB max
Return Loss(min)	20 dB
Attenuation	13 dB@fo±25 MHz
Impedance	50 Ω
Temperature Range	-30 ~ +80°C

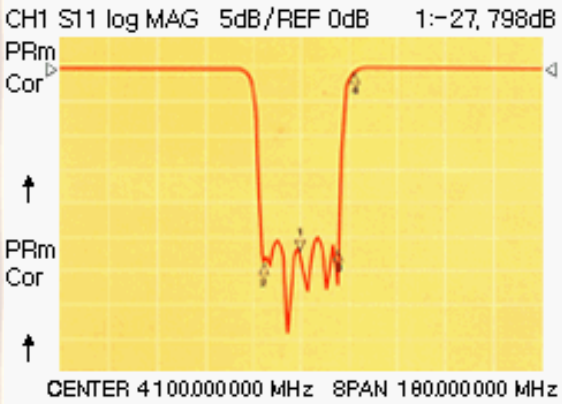
LC Filter.

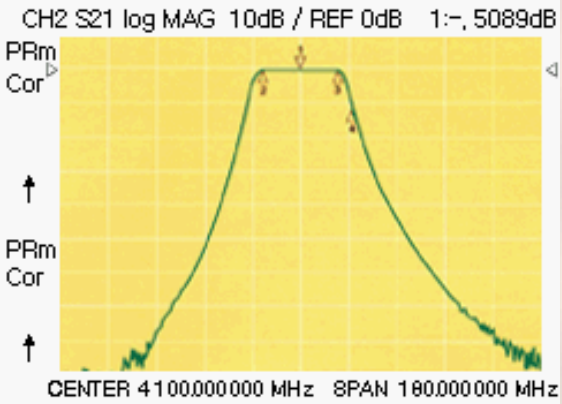


Center Freq.	250MHz	
Bandwidth	20MHz	
Insertion Loss(Max)	2.0dB	
Return Loss(Min)	16dB	
Passband Ripple(Max)	0.4dB	
Attenuation(Min)	75dB at 850MHz	
Impedance	-50ohm	
Operating Temp	-20~60℃	
Dimension(WxHxD)	50.0X20.0X23.5mm	

MDR Filter.

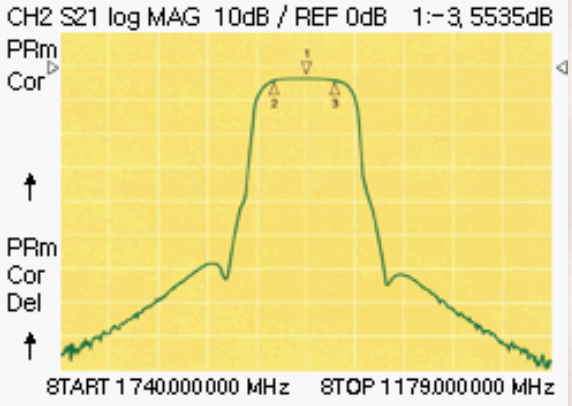
Frequency Range	3.6~4.99GHz	5.0~7.1GHz	7.1~8.325GHz	
Bandwidth	28MHz(±14MHz)			
Insertion Loss(Max)	0.6dB	0.9dB	1.2dB	
Return Loss(Min)	22dB			
Passband Ripple(Max)	0.1dB			
Passband Flatness	0.3dB	0.4dB	0.5dB	
3dB Bandwidth	35MHz ±0.25MHz			
10dB Bandwidth(Max)	40MHz(±20)MHz			
Rejection(Min)	50dB at Fo ±40MHz			
	80dB at Fo ±80MHz			
Reletive Group Delay(Max)	25ns			
Spurious(Min)	80dB at <1.3Fo			





Miniture BPF

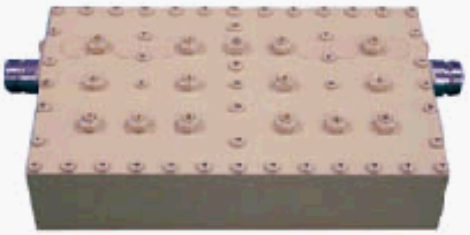
내 용	규 격	비 고
Frequency Range	1700~1900MHz	
Bandwidth	7MHz	@fc±3.5MHz
Insertion Loss(Max)	6.0dB	@fc±3.5MHz
Return Loss(Min)	15dB	@fc±3.5NHz
1.5dB Bandwidth(Min)	7MHz	
25dB Bandwidth(Max)	11.5MHz	
Operating Temp	-20~60℃	
Connector	SMA Female	
Dimension(WxHxD)	104.0×34.5mm	
Weight(Max)	400g Max	



25MHz CELLULAR BPF (JAS-800BPF25)

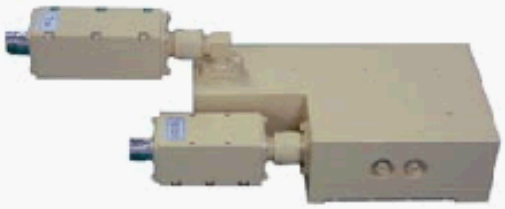
Characteristics	Specifications	Applications
Frequency	824~849MHz/869~894MHz	
Return Loss:	< 1dB	
Insertion Loss	< 15dB	
Flatness:	< 0.6dB	
Attenuation:	25dB at 822MHz > 80dB at 896MHz	
Operating Temperature:	-30 ~ 50℃	

IMT-2000 RX BPF (Band Pass Filter)



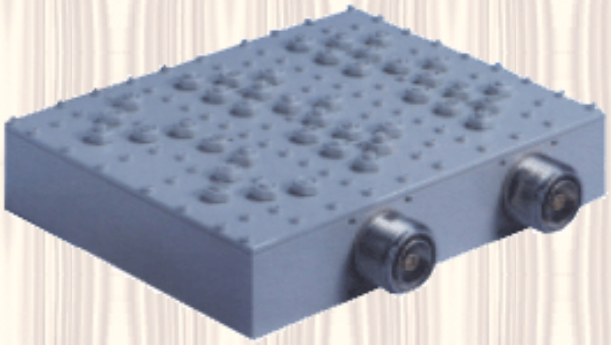
Characteristics		Specifications	Applications
Frequency		1920~1980MHz	
Pass Band		20MHz	
Insertion Loss		< 0.8dB	
Pass Band Ripple		< 0.5dB	
Attenuation	DC~1870MHz	> 90dBc	
	1920~1980MHz	> 90dBc	
	2300~2400MHz	> 90dBc	
	2.4~12.75GHz	> 35dBc	
2nd, 3rd Harmonic Rejection		80dBc	
I/O VSWR		< 1.2 : 1	
Impedance		50Ω	
Size		168 × 98 × 37	
Operating Temperature		-20~+60℃	
Relative Humidity		0~95%	
Connector Type		N (Female)	

IMT-2000 TX DR Filter



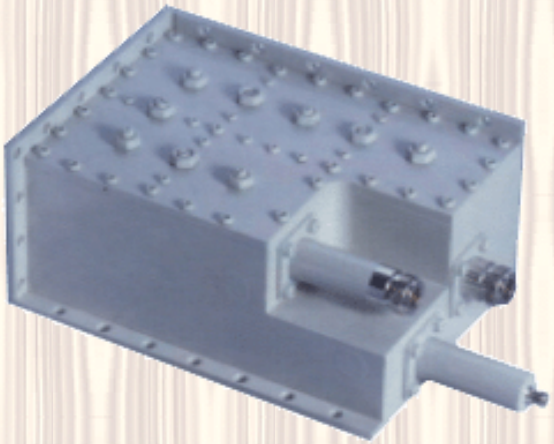
Characteristics		Specifications	Applications
Frequency		2110~2170MHz	
Pass Band		20MHz	
Insertion Loss		< 0.4dB	
Input Power Range		320W (AVG)	Peak To AVG 13dB
Pass Band Ripple		< 0.2dB	
Attenuation	DC~1870MHz	> 90dBc	
	1920~1980MHz	> 90dBc	
	2300~2400MHz	> 90dBc	
	2.4~12.75GHz	> 35dBc	
2nd, 3rd Harmonic Rejection		80dBc	
I/O VSWR		< 1.2 : 1	
Impedance		50Ω	
Size		288 × 98 × 50	
Operating Temperature		-20~+60℃	
Relative Humidity		0~95%	
Connector Type		N(Female)	

Cavity Filter.



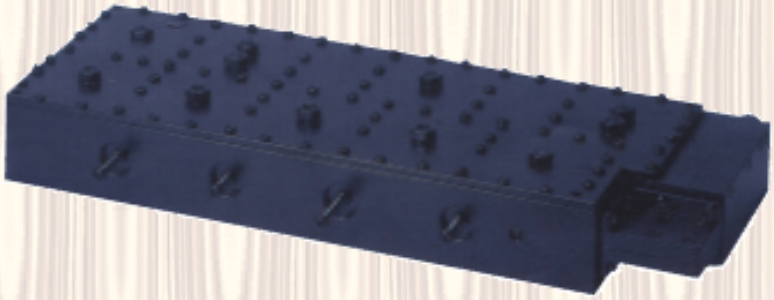
ELECTRICAL SPECIFICATIONS	
MODEL	XSRS-1960F(RX-DUP PATH)
Operating Frequency	1850 -1910 MHz
Bandwidth	60.0 MHz
Insertion Loss	0.75 dB Max.
Passband ripple	0.45 dB, Max.
V.S.W.R.	1.2:1, Max.
Attenuation	70 dB, Min. at Rx band 50.0 dB, Min. at 50- 1790 MHz 50.0 dB, Min. at 2.09 ~4.5 GHz 70.0 dB, Min. at Tx band 50.0 dB, Min. at 50~1790 MHz 50.0 dB, Min. at 2.09 ~5.0 GHz
Coupling value	30.0 ± 0.8 dB
Power Handling	20 Watt, Avg
Impedance	50 ohm
Operating Temp.	-40℃ ~+85℃
Dimension (WxHxD)	187.96 x 152.40 x 43.81 mm (7.4 x 5.98 x 1.72 inch)
Connector type	SMA-type Female DIN-type Female for ANTENNA port

Cavity Filter for IMT-2000



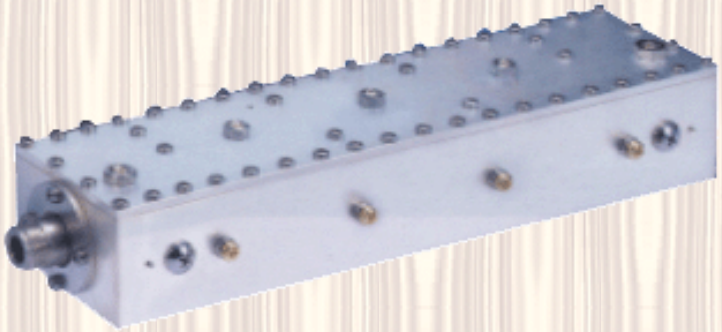
ELECTRICAL SPECIFICATIONS	
MODEL	XSRA-2120FN(RX PATH)
FREQUENCY RANGE	1920~1940MHz
INSERTION LOSS	1.2 dB, Max.
V.S.W.R.	1.3:1 Max.
ATTENUTION	@2110~2130 MHz 93.0 dB Min. @1920~1980MHz 93.0 dB Min. @277~1525 MHz 83.0 dB Min. @277~1525MHz 73.0 dB Min. @1915MHz 13.0 dB, Min. @2100 MHz 13.0 dB, Min. @1905 MHz 53.0 dB, Min. @2060 MHz 53.0 dB, Min @1900MHz 63.0 dB, Min. @2050 MHz 58.0 dB, Min. @1950MHz 13.0 dB, Min. @2140MHz 13.0 dB, Min. @1970MHz 33.0 dB, mIN. @2160 MHz 33.0 dB, Min. @1980MHz 38.0 dB, Min. @2170MHz 38.0 dB, Min. @1980~12750MHz 38.0 dB, Min. @2170~12750MHz 38.0 dB, Min.
POWER HANDLING	127 Watt, Avg. (1270 Watt, Peak.)
IN/OUT IMPEDANCE	50 ohm
OPERATING TEMP	-10℃ ~+55℃
DIMENSIONS	118.0 x 82.0 x 159.0 mm

Ceramic Cavity Filter.



ELECTRICAL SPECIFICATIONS	
MODEL	XSRD-1865FL
Frequency Range	186.5 -1869.5 MHz 1770.5 -1779.5 MHz
Bandwidth	9.0MHz 9.0MHz
Insertion Loss	0.9 dB, Max. 0.9 dB, Max.
Passband ripple	0.40 dB. Max. 0.40 dB. Max.
V.S.W.R.	1.2:1, Max. 1.2:1, Max.
Attenuation	20.0 dB, Min. Fat c ± 6.0 MHz/ 110.0 dB, Min. at Tx band 110.0 dB, Min. at Rx band/ 35.0 dB, Min. at 1.8~3.4 GHz 35.0 dB, Min. at 1.9~3.7 GHz
2nd Harhamonic	80.0 dB, Min.
Coupling Vale	40.0 ± 1.0 dB
Impedance	50 Ω
Operating Temp.	-30℃~+80℃
Dimension (WxHxD)	115.0 x 331.0 x 44.0 mm
Connector type	N-type Female SMA-type Female for coupling port

Ceramic Filter

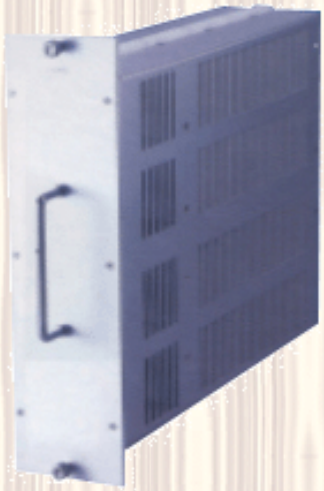


ELECTRICAL SPECIFICATIONS	
MODEL	DAF-1775-10
Frequeny Range	1770.0~1780.0 MHz
Bandwidth	10.0 MHz
Insertion Loss	0.70 dB, Max.
Passband ripple	0.20 dB, Max.
V.S.W.R.	0.2:0, Max.
Attenuation	23.0 dB, Min. at Fc ± 10.0 MHz 105.0 dB, Min. at Fc ± 80.0 MHz 85.0 dB, Min.at Fc ± 80.0 MHz
Impedance	50 Ω
Operating Temp.	-30℃~+60℃
Dimension(W×H×D)	60.0×43.0×245.0 mm
Connector Type	N-Type Female

Ceramic Channel Filter.

ELECTRICAL SPECIFICATIONS	
MODEL	800 MHz(CMR-DP2)
Frequency Range	869.0~880.0 MHz
Insertion Loss	0.9 dB, Max.
V.S.W.R.	1.2:1, Max.
Passband ripple	0.2 dB, Max
Power Handling[Avg.]	75 Watt per Channel
Power Handling[Peak]	750 Watt
Isoiation per Channel	20.0 dB, Max .
Attenuation Fc± 1.25 MHz	4.0 dBc, Min.
Attenuation Fc± 1.98 MHz	14.0 dBc, Min.
Attenuation Fc± 2.25 MHz	16.0 dBc, Min.
Attenuation Fc± 3.125 MHz	25.0 dBc, Min
Attenuation Fc± 5.0 MHz	N/A
Attenuation Fc± 10.0 MHz	45.0 dBc, Min
Attenuation 2Fc	30.0 dBc, Min
Attenuation RX Band	70.0 dBc, Min
In/Out Impedance	50 ohm
Operating Temperature	-30℃~+60℃

Ceramic Channel Filter.

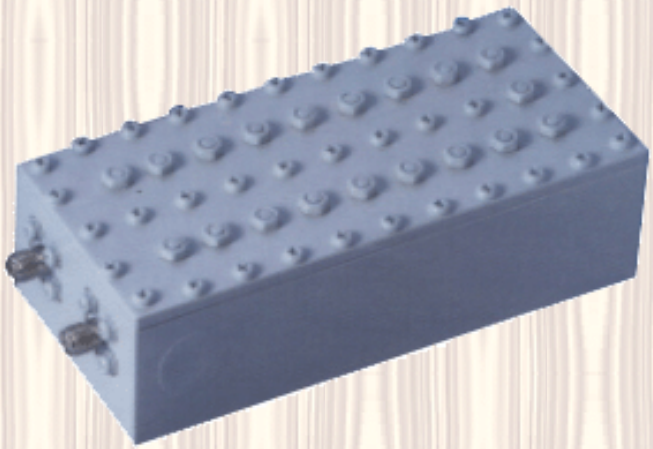


ELECTRICAL SPECIFICATIONS	
MODEL	1800 MHz(CMR-X3-A)
Frequency Range	1840.0~1850.0 MHz
Insertion Loss	1.2 dB Max.
V.S.W.R.	1.2:1, Max.
Passband ripple	0.2 dB, Max.
Power Handling [Avg.]	75 Watt per Channel
Power Handling [Peak]	750 Watt
Isolation per Channel	20.0 dB, Max.
Attenuation Fc ± 1.25 MHz	3.0 dB, Min
Attenuation Fc ± 2.25 MHz	11.0 dB, Min
Attenuation Fc ± 5.0 MHz	30.0 dB, Min
Attenuation Fc ± 10.0 MHz	40.0 dB, Min
Attenuation Fc ± 60.0 MHz	50.0 dB, Min
Attenuation 2Fc	30.0 dB, Min
Attenuation RX Band	70.0 dB,Min
In/Out Impedance	50Ω
Operating Temperature	-30℃ ~ +60℃

Channelized Repeater

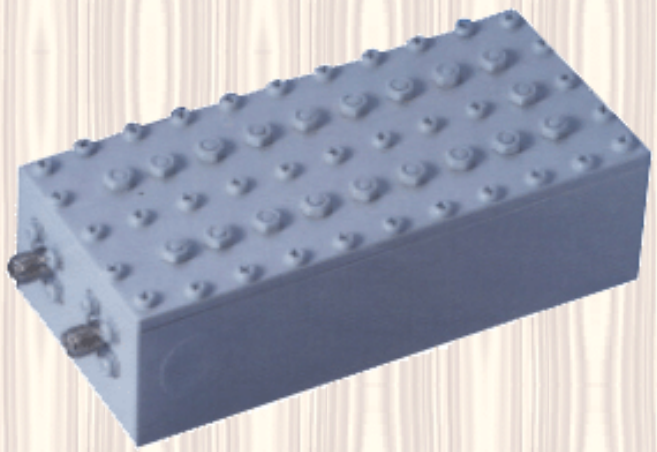
ELECTRICAL SPECIFICATIONS	
MODEL	HCRS-1OORA-5
INPUT FREQUENCY RANGE	LNK ANTENNA PORT:1850 MHz .1860 MHz(Forward Input) SVC ANTENNA PORT:1760 MHz -1770 MHz (Reverse Input
INPUT LEVEL	-45 dBm~ -75 dBm
OUTPUT FREQUENCY RANGE	LNK ANTENNA PORT:1760 MHz -1770 MHz(Forward output) SVC ANTENNA FORT:1850 MHz -1860 MHz (Reverse outp
LINK GAIN	Forward:125 dB Max. Reverse:120 dB Max.
P1 dB	Forward:43 dBm@ 1FA Reverse:33 dBm@ 1FA
3 rd ORDER INTERCEPT POINT	Forward:55 dBm@ 1 FA Reverse:46 dBm@ 1 FA
CHANNEL BANDWIDTH	1.23 MHz
SPURIOUS	Fc ± 885 KHz:45 dBc, mm. 30 KHz RBW
FLATNESS	2dB max. @ 1.23 MHz CDMA Wave
NOISE FIGURE	5 dB Max
ATTEN. CONTROL RANGE	40 dB/2dB step
FREQUENCY STABILITY	+ 0.05 PPM
PROPAGATION DELAY	5μsmax.μs
INIOUT VSWR	1.5:1 Max.
FREQ. GAIN CONTROL	EXTERNAL, RS-232C or RS 422 or KEY PAD.
MONITOR	40 dB (DIRECTIONAL COUPLER)
COMMON	PLL FREQUENCY SYNTHESIZER, PLL ALARM, POWER AMP ALARM, RF STATUS DISPLAY AT LCD PANEL
POWER INPUT	220 VAC

Delay Filter.



ELECTRICAL SPECIFICATIONS	
MODEL	BSRS-2100H
Frequency Range	2090~2190 MHz
Bandwidth	100.0 MHz
Delay	10.0 ± 0.1 nsec
Dimensions	30.0 x 110.0 x 47.0 mm
Amplitude Ripple	± 0.05 dB Max
Phase Difference	± 0.5 °
Power Handling	150 Watt Avg.
Intermodulation distortion	-80.0 dBc Min.
IN/OUT Impedance	50Ω
Operating temperature	0 ℃ ~+70 ℃
Insertion Loss	0.40 dB Max
V.S.W.R	1.2:1 Max

Delay Filter.

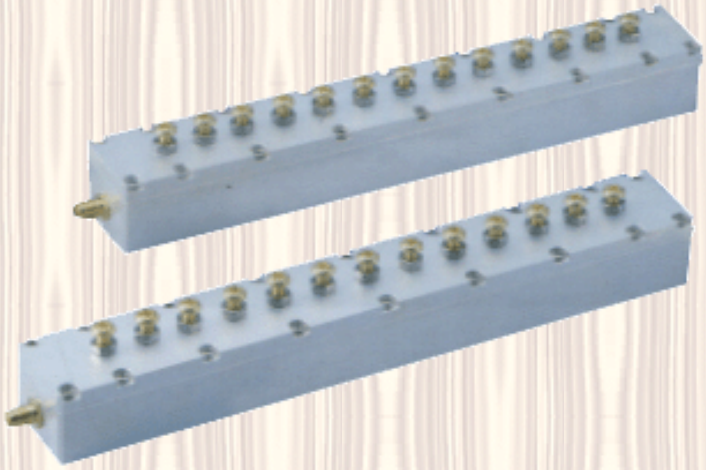


ELECTRICAL SPECIFICATIONS	
MODEL	BSRA-2150K
Frequency Range	2050~2250 MHz
Bandwidth	200.0 MHz
Delay	11.5 ± 0.1 nsec
Dimensions	33.0x118.0x52.0 mm
Amplitude Ripple	± 0.05 dB, Max
Phase Difference	± 0.5 °
Power Handling	150 Watt, Avg.
Intermodulation distortion	-80.0 dBc, Min.
IN/OUT Impedance	50Ω
Operating temperature	0℃ ~+70℃
Insertion Loss	0.40 dB, Max.
V.S.W.R	1.2:1, Max.

Fiberoptic Repeater.

ELECTRICAL SPECIFICATIONS	
MODEL	AFOR-P200-H3
Center frequency Forward	1855 MHz~1765 MHz / TX Filter Bandwidth 6.25 MHz
Input Forward	-40~-10 dBm / A, B, common path
Input Reverse	-110~63 dBm
Output Forward	20 W Min./@1FA:43dBm (20 Watt)/FA
Output Reverse	5 mW Min. / @2FA:4OdBm (10 Watt)/FA @4FA: 37 dBm (5 Watt)/FA
Gain Forward	42-80 dB / RF gain only, mGain from optical conversion should be calculated at 0dB Stability of Reverse paths A AND B:<±0.7 dB
Gain Reverse	42~70 dB / RF gain only, mGain from optical conversion should be calculated at 0dB Stability of Reverse paths A AND B:<±0.7 dB
Gain Step Level	1 dB / RF gain only, mGain from optical conversion should be calculated at 0dB Stability of Reverse paths A AND B:<±0.7 dB
ALC Function	1dB Step / Applicable only to Forward path. Can be turned On or Off
RX Port Isolation	30 dB Min / @-105 dBm/FA input level, and 80dB Gain
TX- RX Isolation	100 dB Min / Duplexer manufacturer's specification
TIME delay	1㎲ Min / Nominal≤ 500 ns
Noise Amplification	Forward, @ No Signal. Gain 70 dB Reverse, @No Signal. Gain 40 dB
Noise figure(MAX), Reverse	Within the gain range of the reverse paths, the noise stability oT both A and B path is less than stability of both A and B path is less than ±0.7 dB
VSWR(MAX)	At 502 nominal impedance
Forward Supprious Characteristics	Conforms to applicable Korean Standards
Frequenfy Syability	±0.05 ppm
Input /Output Connector	N-type Female
Moniter Port, Forward	40±1 dB Coupler / Final output port of the Slave Unit
Moniter Port, Reverse	3 ± 1 dB Divider
Input Voltage(VAC)	Voltage fluctuation must be within ± 7.5%

IMT-2000 Base Station Filter.



ELECTRICAL SPECIFICATIONS	
MODEL	BTS-RX-60
Frequency range	0.92 GHz~1.98 GHz
Bandwidth	60 MHz
Insertion Loss	0.8 dB max.
V.S.W.R.	1.2:1 max.
Passband ripple	0.5 dB max.
Attenuation	80dB min.at TX BAND
In/Out Impedance	50Ω
Input power	10 Watts max
Temperature range	-20℃~+60℃
Dimensions(W×H×D)	320×30×25mm(8.15×1.18×0.98 inch)
Weight	1kg(2.20 lbs.)
Connector	IN/OUT SMA-Female

Low Pass Filter.

ELECTRICAL SPECIFICATIONS	
MODEL	LPF-900F
Operating Frequency	800~900 MHz
Insertion Loss	0.25dB, Max.
V.S.W.R.	12:1, Max.
Description	Light weight, Rectangular appearance, High attenuation

ELECTRICAL SPECIFICATIONS	
MODEL	LPF-1800
Operating Frequency	1700~1800 MHz
Insertion Loss	0.25 dB, Max.
V.S.W.R.	1.2:1, Max.
Description	Compact size, Cylindrical housing