

4. Waveguide Filter / Duplexer



FEATURE

- High “Q” /Low Insertion Loss(0.1~3dB)
- Excellent Temp. Stability(-40~+85°C)
- High Power Capability(~2KW)
- Flange and Coaxial Connector
- Custom Design(6~100GHz)

APPLICATION

- Microwave and Millimeter Wave
- Point to Point Wireless Link
- Satellite Repeater



■ Waveguide Filter / Duplexer

Waveguide Filter

Part Number	Freq. Range (GHz)	I.L (dB)	R.L (dB)	In/Out Port	Attenuation (dB)	Dimension (KxWxH)
W2I7500B500L0.7A70W90	7.250 ~ 7.750	0.7	-18	WR90	70 at 7.9 ~ 8.4GHz	160x103x41
W1E8150B500L0.7A100N	7.900 ~ 8.400	0.7	-18	N-type(f)	100 at 7.250 ~ 7.750 GHz	300x120x23
W1B11725B2050L0.5A50W75	10.700 ~ 12.750	0.5	-18	WR75	50 at 13.00 ~ 14.50 GHz	160x39x39
W1B11850B1800L0.3A65W75	10.950 ~ 12.750	0.3	-17	WR75	65 at 13.75~14.50GHz	200x39x39
W0E14125B750L0.3A40W75	13.750 ~ 14.125	0.3	-18	WR75	40 at 10.70~ 12.75GHz	100x90x39
W0E14750B2500L1.0A40S	13.500 ~16.000	1.0	-14	SMA(f)	40 at 12.00 & 18.00GHz	130x24x20
W0F12807B84L2.0A65W75	12.765~12.849	2.0	-15	WR75	65 at 12.40& 13.20 GHz	160x39x39
W0F12807B112L1.7A65W75	12.751~12.863	1.7	-15	WR75	65 at 12.40& 13.20 GHz	160x39x39
W0F12929B84L2.0A65W75	12.877~12.961	2.0	-15	WR75	65 at 12.50& 13.40 GHz	160x39x39
W0F13073B84L2.0A65W75	13.031~13.115	2.0	-15	WR75	65 at 12.70& 13.50 GHz	160x39x39
W0F13073B112L1.7A65W75	13.017~13.129	1.7	-15	WR75	65 at 12.70& 13.50 GHz	160x39x39
W0F13185B84L2.0A65W75	13.143~13.227	2.0	-15	WR75	65 at 12.70& 13.60 GHz	160x39x39
W0G14610B420L1.5A60W62	14.400~14.820	1.5	-17	WR62	60 at 14.05& 15.17 GHz	150x34x34
W0D14795B100L1.7A60W62	14.745~14.845	1.7	-17	WR62	60 at 14.20& 15.40 GHz	110x34x34
W0D15215B100L1.7A60W62	15.165~15.265	1.7	-17	WR62	60 at 14.70& 15.80 GHz	110x34x34
W0F15250B200L1.7A60W62	15.150~15.350	1.7	-17	WR62	60 at 14.90& 15.65 GHz	140x34x34
W0F17835B270L1.0A65W42	17.700~17.970	1.0	-17	WR42	65 at 17.25& 18.55 GHz	140x22x22
W0F17900B400L1.0A65W42	17.700~18.100	1.0	-17	WR42	65 at 17.20& 18.90 GHz	140x22x22
W0F17975B440L1.0A65W42	17.755~18.195	1.0	-17	WR42	65 at 17.20& 19.00 GHz	140x22x22
W0F18415B440L1.0A65W42	18.195~18.635	1.0	-17	WR42	65 at 17.70& 19.30 GHz	140x22x22
W0E18585B270L1.0A65W42	18.450~18.720	1.0	-17	WR42	65 at 17.95& 19.40 GHz	130x22x22
W0F18845B270L1.0A65W42	18.710~18.980	1.0	-17	WR42	65 at 18.35& 19.40 GHz	140x22x22
W0F18985B440L1.0A65W42	18.765~19.205	1.0	-17	WR42	65 at 18.25& 19.90 GHz	140x22x22
W0F19040B400L1.2A65W42	18.840~19.240	1.2	-17	WR42	65 at 18.35& 19.90 GHz	140x22x22
W0F19425B440L1.0A65W42	19.205~19.645	1.0	-17	WR42	65 at 18.70& 20.30 GHz	140x22x22
W0F19600B400L1.2A65W42	19.400~19.800	1.2	-17	WR42	65 at 18.94& 20.40 GHz	140x22x22
W0F19460B400L1.0A65W42	19.260~19.660	1.0	-17	WR42	65 at 18.85& 20.20 GHz	140x22x22
W0E22150B300L1.5A60W34	22.000~22.300	1.5	-17	WR34	60 at 21.40& 23.00 GHz	120x22x22
W0E22500B400L1.5A60W34	22.300~22.700	1.5	-20	WR34	60 at 21.65& 23.65 GHz	120x22x22
W0E23150B300L1.5A60W34	23.000~23.300	1.5	-17	WR34	60 at 22.40& 24.00 GHz	120x22x22
W0D24075B50L2.5A60W34	24.050~24.100	2.5	-15	WR34	60 at 23.75& 24.45 GHz	110x22x22
W0D24225B50L2.5A60W34	24.200~24.250	2.5	-15	WR34	60 at 23.90& 24.60 GHz	110x22x22
W0E24350B200L1.5A60W34	24.250~24.450	1.5	-17	WR34	60 at 23.70& 25.15 GHz	120x22x22
W0F24500B400L1.5A60W34	24.300~24.700	1.5	-17	WR34	60 at 23.90& 25.20 GHz	130x22x22
W0E24690B280L1.5A60W34	24.550~24.830	1.5	-17	WR34	60 at 24.00& 25.45 GHz	120x22x22
W0E25150B200L1.5A60W34	25.050~25.250	1.5	-17	WR34	60 at 24.50& 25.85 GHz	120x22x22

■ Waveguide Filter / Duplexer

Waveguide Filter

Part Number	Freq. Range (GHz)	I.L (dB)	R.L (dB)	In/Out Port	Attenuation (dB)	Dimension (KxWxH)
W0E25700B280L1.5A60W34	25.560~25.840	1.5	-17	WR34	60 at 25.00& 26.45 GHz	120x22x22
W0E26400B300L1.5A65W34	26.250~26.550	1.5	-17	WR34	65 at 25.60& 27.50 GHz	120x22x22
W0E27575B150L2.0A60W28	27.500~27.650	2.0	-17	WR28	60 at 27.20& 28.00 GHz	100x20x20
W0E27612B208L1.7A60W28	27.508~27.716	1.7	-17	WR28	60 at 27.00& 28.30 GHz	100x20x20
W0E27820B208L1.7A60W28	27.716~27.924	1.7	-17	WR28	60 at 27.25& 28.50 GHz	100x20x20
W0E27925B150L2.0A60W28	27.850~28.000	2.0	-17	WR28	60 at 27.40& 28.50 GHz	100x20x20
W0E28028B208L1.7A60W28	27.924~28.132	1.7	-17	WR28	60 at 27.50& 28.65 GHz	100x20x20
W0E28600B400L1.5A65W28	28.400~28.800	1.5	-17	WR28	65 at 27.65& 29.75 GHz	100x20x20
W0F29000B600L1.5A65W28	28.700~29.300	1.5	-17	WR28	65 at 28.80& 30.20 GHz	110x20x20
W0F31000B600L1.5A65W28	30.700~31.300	1.5	-17	WR28	65 at 29.95& 32.20 GHz	110x20x20
W0E32000B400L1.3A60W28	31.800~32.200	1.3	-17	WR28	65 at 30.80& 33.20 GHz	100x20x20
W0E32070B400L1.2A65W28	31.870~32.270	1.2	-17	WR28	65 at 30.80& 33.30 GHz	100x20x20
W0E33200B400L1.3A60W28	33.000~33.400	1.3	-17	WR28	60 at 32.00& 34.40 GHz	100x20x20
W0E34500B460L1.3A65W28	34.270~34.730	1.3	-17	WR28	65 at 33.30& 35.85 GHz	100x20x20
W0G35500B1000L1.5A60W28	35.000~36.000	1.5	-15	WR28	60 at 34.00& 37.00 GHz	90x20x20
W0F37338B532L1.5A65W28	37.072~37.604	1.5	-17	WR28	65 at 36.20& 38.70 GHz	80x20x20
W0F37898B532L1.5A65W28	37.632~38.164	1.5	-17	WR28	65 at 36.70& 39.20 GHz	80x20x20
W0F37900B600L1.5A65W28	37.600~38.200	1.5	-17	WR28	65 at 36.60& 39.30 GHz	80x20x20
W0E38598B532L1.5A65W28	38.332~38.864	1.5	-17	WR28	65 at 37.40& 39.90 GHz	80x20x20
W0E38800B400L1.6A65W28	38.600~39.000	1.6	-17	WR28	65 at 37.60& 40.00 GHz	80x20x20
W0E39158B532L1.5A65W28	38.892~39.424	1.5	-17	WR28	65 at 37.90& 40.50 GHz	80x20x20
W0E39160B600L1.5A65W28	38.860~39.460	1.5	-17	WR28	65 at 37.80& 40.50 GHz	80x20x20
W0E39500B400L1.6A65W28	39.300~39.700	1.6	-17	WR28	65 at 38.30& 40.70 GHz	80x20x20
W0D41310B380L1.8A60W22	41.120~41.500	1.8	-17	WR22	60 at 39.90& 43.00 GHz	70x20x20
W0G58700B1400L1.8A60W15	58.000~59.400	1.8	-15	WR15	60 at 57.00& 60.50 GHz	60x20x20
W0G59000B1900L1.7A60W15	58.050~59.950	1.7	-15	WR15	60 at 56.85& 61.50 GHz	60x20x20
W0D59150B300L2.5A60W15	59.000~59.300	2.5	-15	WR15	60 at 58.00& 60.40 GHz	60x20x20
W0F59400B800L2.0A60W15	59.000~59.800	2.0	-15	WR15	60 at 58.10& 60.90 GHz	60x20x20
W0D60000B200L2.5A60W15	59.900~60.100	2.5	-17	WR15	60 at 58.90& 61.10 GHz	60x20x20
W1B60500B7000L1.5A60W15	57.000~64.000	1.5	-15	WR15	60 at 55.50& 66.50 GHz	80x20x20
W0G60600B1200L2.0A60W15	60.000~61.200	2	-17	WR15	60 at 59.00& 62.30 GHz	60x20x20
W0F60700B500L2.0A60W15	60.450~60.950	2	-17	WR15	60 at 59.40& 62.10 GHz	60x20x20
W0D60950B300L2.5A60W15	60.800~61.100	2.5	-15	WR15	60 at 59.80& 62.20 GHz	60x20x20
W0G62300B1400L1.8A60W15	61.600~63.000	1.8	-15	WR15	60 at 60.60& 64.10 GHz	60x20x20
W0F62400B600L2.0A60W15	62.100~62.700	2	-17	WR15	60 at 61.00& 63.80 GHz	60x20x20
W0G63800B1200L2.0A60W15	63.200~64.400	2	-17	WR15	60 at 62.10& 65.50 GHz	60x20x20

■ Waveguide Filter / Duplexer

Waveguide Filter

Part Number	Freq. Range (GHz)	I.L (dB)	R.L (dB)	In/Out Port	Attenuation (dB)	Dimension (KxWxH)
W0E64350B500L2.0A60W15	64.100~64.600	2	-17	WR15	60 at 63.00& 65.70 GHz	60x20x20
W0D72820B400L2.5A60W12	72.620~73.020	2.5	-17	WR12	60 at 71.40& 74.30 GHz	35x20x20
W0D74430B400L2.5A60W12	74.230~74.630	2.5	-17	WR12	60 at 73.02& 75.90 GHz	40x20x20

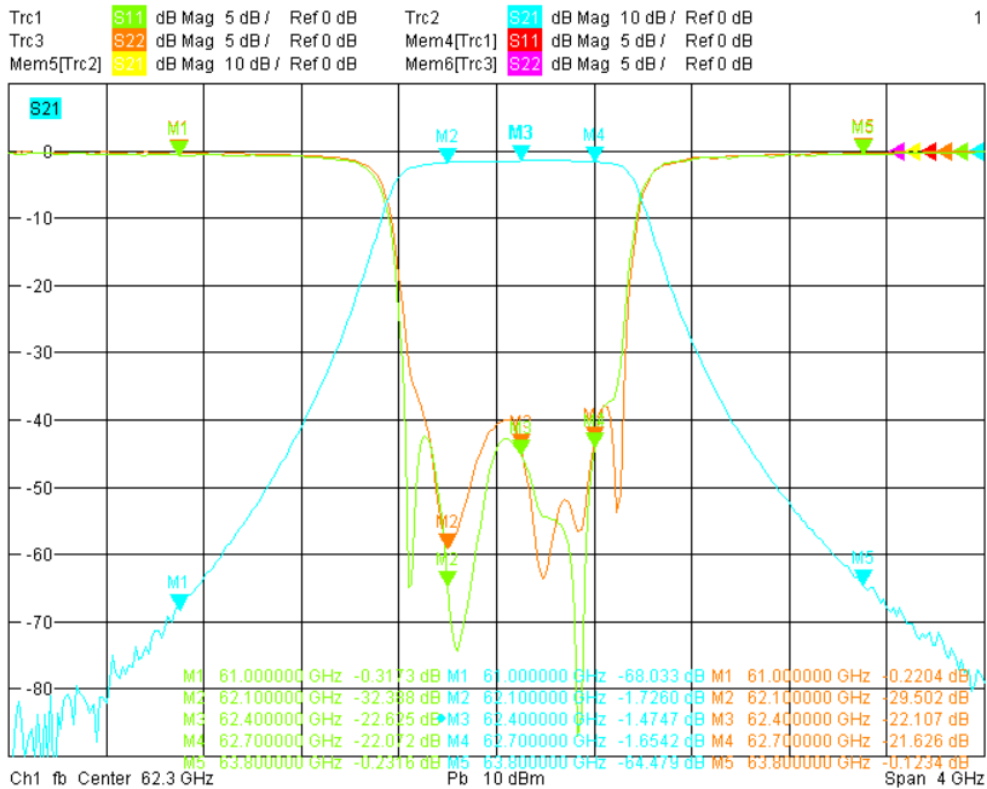
FEATURE

W0F62400B600L2.0A60W15



PERFORMANCE

W0F62400B600L2.0A60W15



■ Waveguide Filter / Duplexer

Waveguide Duplexer

Part Number	Freq. Range (GHz)	I.L (dB)	R.L (dB)	In/Out Port	Attenuation (dB)	Dimension (KxWxH)
W1B10225F10575B150L1.0A65W75	L:10.150~10.300 H:10.500~10.650	1.0	-17	WR75	65 at Low Band 65 at High Band	160x70x21
W1B11115R11605B160L1.5A65W75	L:11.035~11.195 H:11.525~11.685	1.5	-17	WR75	65 at Low Band 65 at High Band	160x70x21
W1F11725F14125B2000 L0.2 A100W75	L:10.700~12.750 H:13.750~14.500	0.2	-18	WR75	100 at Low Band 100 at High Band	235x78x39
W1B12807F13073B84L2.5A65W75	L:12.765~12.849 H:13.031~13.115	2.5	-17	WR75	65 at Low Band 65 at High Band	280x40x40
W1J12919F13185B84L2.5A65W75	L:12.877~12.961 H:13.143~13.227	2.5	-17	WR75	65 at Low Band 65 at High Band	280x40x40
W1J14456F15100B140L1_5A80W62	L:14.386~14.526 H:15.030~15.170	1.5	-18	WR62	80 at Low Band 80 at High Band	240x105x16
W1J14554F15198B140L1_5A80W62	L:14.484~14.624 H:15.128~15.268	1.5	-18	WR62	80 at Low Band 80 at High Band	240x105x16
W1J14652F15296B140L1_5A80W62	L:14.582~14.722 H:15.226~15.366	1.5	-18	WR62	80 at Low Band 80 at High Band	240x105x16
W1J14795F15215B100L1.5A65W75	L:14.745~14.845 H:15.165~15.265	1.5	-17	WR75	65 at Low Band 65 at High Band	240x105x16
W1B17920F19480B440L1.0A80S	L:17.700~18.140 H:19.260~19.700	1.0	-14	SMA(f)	80 at Low Band 80 at High Band	130x62x20
W1B18291F19301B320L1.3A70W42	L:18.131~18.451 H:19.141~19.461	1.3	-20	WR42	70 at Low Band 70 at High Band	110x63x18
W1B18537F19547B320L1.3A70W42	L:18.377~18.697 H:19.387~19.707	1.3	-20	WR42	70 at Low Band 70 at High Band	110x63x18
W0G21230F23400B50-380L1.0A60W42	L:21.205~21.255 H:23.210~23.590	1.0	-14	WR42	60 at Low Band 60 at High Band	160x23x23
W1J22150F23150B300L1.5A65W42	L:22.000~22.300 H:23.000~23.300	1.5	-17	WR42	65 at Low Band 65 at High Band	80x62x22
W1J24075F24225B50L2.5A50W42	L:24.050~24.100 H:24.200~24.250	2.5	-17	WR42	50 at Low Band 50 at High Band	80x50x22
W1B24350F25150B200L1.6A60W42	L:24.250~24.450 H:25.050~25.250	1.6	-17	WR42	60 at Low Band 60 at High Band	100x50x22
W1B24690F25700B280L1.5A60W42	L:24.550~24.830 H:25.560~25.840	1.5	-17	WR42	60 at Low Band 60 at High Band	100x50x22
W1D24772R25780B504L1.3A65W42	L:24.520~25.024 H:25.528~26.032	1.3	-18	WR42	65 at Low Band 65 at High Band	110x63x18
W1D25220R26228B504L1.3A65W42	L:24.968~25.470 H:25.976~26.480	1.3	-18	WR42	65 at Low Band 65 at High Band	110x63x18
W1D27686R28694B504L1.3A65W28	L:27.434~27.938 H:28.442~28.946	1.3	-18	WR28	65 at Low Band 65 at High Band	110x63x18
W1B27820F28236B208L2.5A50W28	L:27.716~27.924 H:28.132~28.340	2.5	-17	WR28	50 at Low Band 50 at High Band	100x50x22
W0H27716.5F28724.5B112L1.2A65W34	L:27.6605~27.7725 H:28.6685~28.7805	1.2	-16	WR34	65 at Low Band 65 at High Band	141x22x22
W1D28220R29228B504L1.3A65W28	L:27.968~28.472 H:28.976~29.480	1.3	-18	WR28	65 at Low Band 65 at High Band	110x63x18
W1J32000F33200B400L1.5A60W28	L:31.800~32.200 H:33.000~33.400	1.5	-17	WR28	60 at Low Band 60 at High Band	100x50x22
W1J37243F38503B402L1.3A65W28	L:37.042~37.444 H:38.302~38.704	1.3	-18	WR28	65 at Low Band 65 at High Band	110x63x18
W1B37338F38598B532L1.6A60W28	L:37.072~37.604 H:38.332~38.864	1.6	-17	WR28	60 at Low Band 60 at High Band	110x50x22
W1B37900F39160B600L1.6A60W28	L:37.600~38.200 H:38.860~39.460	1.6	-17	WR28	60 at Low Band 60 at High Band	110x50x22
W1D38800F39500B400L1.6A50W28	L:38.600~39.000 H:39.300~39.700	1.6	-17	WR28	50 at Low Band 50 at High Band	110x50x22

■ Waveguide Filter / Duplexer

Waveguide Duplexer

Part Number	Freq. Range (GHz)	I.L (dB)	R.L (dB)	In/Out Port	Attenuation (dB)	Dimension (KxWxH)
W1J55954F56570B224L3 0A55W15	L:55.842~56.066 H:56.458~56.682	3.0	-18	WR15	55 at Low Band 55 at High Band	90x20x20
W1B56206F56822B280L3 0A55W15	L:56.066 ~56.346 H:56.682~56.962	3.0	-18	WR15	55 at Low Band 55 at High Band	90x20x20
W1B57325F58225B450L3 0A55W15	L:57.100 ~57.550 H:58.000 ~58.450	3.0	-18	WR15	55 at Low Band 55 at High Band	90x20x20
W1B58700F62300B1400L1.7A60W15	L:58.000~59.400 H:61.600~63.000	1.7	-15	WR15	60 at Low Band 60 at High Band	90x20x20
W1J59150F60950B300L2.5A75W15	L:59.000~59.300 H:60.800~61.100	2.5	-15	WR15	75 at Low Band 75 at High Band	90x20x20
W1D59025F61525B1250L1.5A55W15	L:58.400~59.650 H:60.900~62.150	1.5	-15	WR15	55 at Low Band 55 at High Band	90x20x20
W1D59500F61500B1000L1.5A55W15	L:59.000~60.000 H:61.000~61.500	1.5	-15	WR15	55 at Low Band 55 at High Band	90x20x20
W1D60000F62500B1250L1.5A55W15	L:59.000~59.300 H:60.800~61.100	1.5	-15	WR15	55 at Low Band 55 at High Band	90x20x20
W1D60500F62500B1000L1.5A55W15	L:59.875~61.125 H:61.875~63.125	1.5	-15	WR15	55 at Low Band 55 at High Band	90x20x20
W1D60600F63800B1200L2.0A75W15	L:60.000~61.200 H:63.200~64.400	2.0	-15	WR15	75 at Low Band 75 at High Band	90x20x20
W1F62500F64350B1000L2.5A70W15	L:62.000~63.000 H:63.850~64.850	2.5	-15	WR15	70 at Low Band 70 at High Band	100x20x20
W1B64265F65255B480L2.5A55W15	L:64.025~64.505 H:65.015~65.495	2.5	-15	WR15	55 at Low Band 55 at High Band	90x20x20
W1B64745F65735B480L2.5A55W15	L:64.505~64.985 H:65.495~65.975	2.5	-15	WR15	55 at Low Band 55 at High Band	90x20x20
W0H71625F81625B1250L1.5A70W12	L:71.000~72.250 H:81.000~82.250	1.5	-15	WR12	70 at Low Band 70 at High Band	90x20x10
W1F72000F75000B1600L2.0A70W12	L:71.200~72.800 H:74.200~75.800	2.0	-14	WR12	70 at Low Band 70 at High Band	100x20x10
W1D73500F83500B5000L1.0A60W12	L:71.000~76.000 H:81.000~86.000	0.8	-12	WR12	60 at Low Band 60 at High Band	80x24x10
W1B74625F84625B2000L1.0A40W12	L:73.625~75.625 H:83.625~85.625	1.0	-18	WR12	40 at Low Band 40 at High Band	90x20x10
W1F82000F85000B1600L2.0A70W12	L:81.200~82.800 H:84.200~85.800	2.0	-14	WR12	70 at Low Band 70 at High Band	100x20x10

FEATURE

W1D73500F83500B5000L1.0A60W12



Waveguide Filter / Duplexer

Waveguide Duplexer

PERFORMANCE

W1D73500F83500B5000L1.0A60W12

