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**SAW Filters for Mobile Communications** 

P72E.pdf May.28,2012

## muRata

## **SAW Duplexers**

SAYFP Series					SAYFH Series	3	
	Dot Marking <sup>(</sup> (ø0.3)	2.5±0.1 (7) (6) (5 8) (1) (2) (5	(9) (4) (4) (4) (7) (7) (7) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Dot Marking (8) (00.3)	(9) (4) $\frac{5}{61}$ 0.6 max.		
	8-0.40±0.11 (0.075 0.90±0.11 2-0.325±0.100 <sup>(1</sup> 4-0.57	0,	(1) (1) (1) (1) (1) (1) (1) (1)	Laser Printing (in mm)		8-0.33±0.08 (0.075) (0	(in mm)
●SAYRJ Series	Dot Marking <sup>(i</sup> ( <u>c0.3</u> )	2.5±0.1 (7) (6) (5 8) (1) (2) (3		2	SAYRF Series	Dot Marking (8) (0.3)	(4) <u>(0,17)</u>
-	8-0.350±0.0 (0.125 0.900±0.0 2-0.325±0.05 <sup>(1</sup>		0.6 max. 0.6 max. 0.7 max. 0.7 max. 0.7 max. 0.6 max. 0.7 max. 0.6 max. 0.7 max. 0.6 ma	Laser Printing		8-0.28±0.05 (0.125) (0.125) (0.125) (0.05 (0.125) (1) (2) (3) (1) (2) (3) (2) (3) (1) (2) (3) (2) (3) (1) (2) (3) (2) (3) (1) (2) (3) (2) (3) (1) (2) (3) (3) (2) (3) (1) (2) (3) (3) (2) (3) (1) (2) (3) (3) (2) (3) (2) (3) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	C G max. SO F F F F F F F F F F F F F F F F F F F
		(7) (6) (	6-0.350±0.05	(in mm)		(7) (6) (5) 4-0.455±0.05	6-0.315±0.05
	<u>4-0.6</u>	500±0.05	F	(			(in mm)
Part Number	Application	Size (mm)	Layout	Rx Impedance	I.L. of Tx to ANT. (dB max.)	I.L. of ANT. to Rx (dB max.)	Isolation (Tx to Rx) (dB min.)
Part Number SAYFP1G95AA0B00	Application Band1	Size (mm) 2.5 x 2.0	Layout Rx Unbalanced LR	Rx Impedance	I.L. of Tx to ANT. (dB max.) 1.6 (1920 to 1980MHz)	I.L. of ANT. to Rx (dB max.) 2.1 (2110 to 2170MHz)	Isolation (Tx to Rx) (dB min.) 53 (1920 to 1980MHz) 44 (2110 to 2170MHz)
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A	Application Band1 Band1	Size (mm) 2.5 x 2.0 2.5 x 2.0	Layout Rx Unbalanced LR Rx Balanced LR	Rx Impedance	I.L. of Tx to ANT. (dB max.) 1.6 (1920 to 1980MHz) 1.7 (1922.4 to 1977.6MHz)* 1.8 (1920.48 to 1979.52MHz)	I.L. of ANT. to Rx (dB max.) 2.1 (2110 to 2170MHz) 2.4 (2112.4 to 2167.6MHz)* 2.5 (2110.48 to 2169.52MHz)	Isolation (Tx to Rx) (dB min.) 53 (1920 to 1980MHz) 44 (2110 to 2170MHz) 55 (1922.4 to 1977.6MHz)* 50 (2112.4 to 2167.6MHz)*
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYFH1G95GA0F55	Application Band1 Band1 Band1	Size (mm) 2.5 x 2.0 2.5 x 2.0 2.0 x 1.6	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR	Rx Impedance 100ohm 100ohm 100ohm	I.L. of Tx to ANT. (dB max.) 1.6 (1920 to 1980MHz) 1.7 (1922.4 to 1977.6MHz)* 1.8 (1920.48 to 1979.52MHz) 1.6 (1920 to 1980MHz)	I.L. of ANT. to Rx (dB max.) 2.1 (2110 to 2170MHz) 2.4 (2112.4 to 2167.6MHz)* 2.5 (2110.48 to 2169.52MHz) 2.4 (2110 to 2170MHz)	Isolation (Tx to Rx) (dB min.) 53 (1920 to 1980MHz) 44 (2110 to 2170MHz) 55 (1922.4 to 1977.6MHz)* 50 (2112.4 to 2167.6MHz)* 50 (1920 to 1980MHz) 44 (2110 to 2170MHz)
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYFH1G95GA0F55 SAYRF1G95HN0F0A	Application Band1 Band1 Band1 Band1	Size (mm) 2.5 x 2.0 2.0 x 1.6 2.0 x 1.6	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Balanced LR	Rx Impedance 100ohm 100ohm 100ohm 100ohm	I.L. of Tx to ANT. (dB max.) 1.6 (1920 to 1980MHz) 1.7 (1922.4 to 1977.6MHz)* 1.8 (1920.48 to 1979.52MHz) 1.6 (1920 to 1980MHz) 1.9 (1922.4 to 1977.6MHz)* 2.0 (1920 to 1980MHz)	I.L. of ANT. to Rx (dB max.) 2.1 (2110 to 2170MHz) 2.4 (2112.4 to 2167.6MHz)* 2.5 (2110.48 to 2169.52MHz) 2.4 (2110 to 2170MHz) 1.7 (2112.4 to 2167.6MHz)* 1.8 (2110 to 2170MHz)	Isolation (Tx to Rx) (dB min.) 53 (1920 to 1980MHz) 44 (2110 to 2170MHz) 55 (1922.4 to 1977.6MHz)* 50 (2112.4 to 2167.6MHz)* 50 (1920 to 1980MHz) 44 (2110 to 2170MHz) 55 (1920 to 1980MHz) 50 (2110 to 2170MHz)
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYFH1G95GA0F55 SAYRF1G95HN0F0A SAYFP1G88BA0B00	Application Band1 Band1 Band1 Band1 Band2	Size (mm) 2.5 x 2.0 2.5 x 2.0 2.0 x 1.6 2.0 x 1.6 2.5 x 2.0	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR	Rx Impedance       100ohm       100ohm       100ohm       100ohm       100ohm       100ohm	I.L. of Tx to ANT. (dB max.) 1.6 (1920 to 1980MHz) 1.7 (1922.4 to 1977.6MHz)* 1.8 (1920.48 to 1979.52MHz) 1.6 (1920 to 1980MHz) 1.9 (1922.4 to 1977.6MHz)* 2.0 (1920 to 1980MHz) 3.4 (1850.5 to 1909.5MHz) 3.7 (1850 to 1910MHz)	I.L. of ANT. to Rx (dB max.) 2.1 (2110 to 2170MHz) 2.4 (2112.4 to 2167.6MHz)* 2.5 (2110.48 to 2169.52MHz) 2.4 (2110 to 2170MHz) 1.7 (2112.4 to 2167.6MHz)* 1.8 (2110 to 2170MHz) 3.6 (1930.5 to 1989.5MHz) 3.9 (1930 to 1990MHz)	Isolation (Tx to Rx) (dB min.) 53 (1920 to 1980MHz) 44 (2110 to 2170MHz) 55 (1922.4 to 1977.6MHz)* 50 (2112.4 to 2167.6MHz)* 50 (1920 to 1980MHz) 44 (2110 to 2170MHz) 55 (1920 to 1980MHz) 55 (1920 to 1980MHz) 50 (2110 to 2170MHz) 52 (1850.5 to 1909.5MHz) 46 (1930.5 to 1989.5MHz)
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYFH1G95GA0F55 SAYRF1G95HN0F0A SAYFP1G88BA0B00 SAYRJ1G88CE0B0A	Application Band1 Band1 Band1 Band1 Band2 BC1	Size (mm) 2.5 × 2.0 2.5 × 2.0 2.0 × 1.6 2.0 × 1.6 2.5 × 2.0 2.5 × 2.0	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Balanced LR	Rx Impedance         100ohm         100ohm         100ohm         100ohm         100ohm         100ohm         100ohm         100ohm	I.L. of Tx to ANT. (dB max.)           1.6 (1920 to 1980MHz)           1.7 (1922.4 to 1977.6MHz)*           1.8 (1920.48 to 1979.52MHz)           1.6 (1920 to 1980MHz)           1.9 (1922.4 to 1977.6MHz)*           2.0 (1920 to 1980MHz)           3.4 (1850.5 to 1909.5MHz)           3.7 (1850 to 1910MHz)           3.0 (1852.4 to 1907.6MHz)*           3.7 (1850.48 to 1909.52MHz)	I.L. of ANT. to Rx (dB max.) 2.1 (2110 to 2170MHz) 2.4 (2112.4 to 2167.6MHz)* 2.5 (2110.48 to 2169.52MHz) 2.4 (2110 to 2170MHz) 1.7 (2112.4 to 2167.6MHz)* 1.8 (2110 to 2170MHz) 3.6 (1930.5 to 1989.5MHz) 3.9 (1930 to 1990MHz) 3.2 (1932.4 to 1987.6MHz)* 4.0 (1930.48 to 1989.52MHz)	Isolation (Tx to Rx) (dB min.)           53 (1920 to 1980MHz)           44 (2110 to 2170MHz)           55 (1922.4 to 1977.6MHz)*           50 (2112.4 to 2167.6MHz)*           50 (1920 to 1980MHz)           44 (2110 to 2170MHz)           55 (1920 to 1980MHz)           44 (2110 to 2170MHz)           55 (1920 to 1980MHz)           50 (2110 to 2170MHz)           52 (1850.5 to 1909.5MHz)           46 (1930.5 to 1989.5MHz)           54 (1852.4 to 1907.6MHz)*           50 (1932.4 to 1987.6MHz)
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYRH1G95GA0F55 SAYRF1G95HN0F0A SAYFP1G88BA0B00 SAYRJ1G88CE0B0A SAYFP1G73BA0F00	Application Band1 Band1 Band1 Band1 Band2 Band2 BC1 Band4 AWS	Size (mm)           2.5 x 2.0           2.5 x 2.0           2.0 x 1.6           2.5 x 2.0	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Balanced LR Rx Balanced LR	Rx Impedance           100ohm	I.L. of Tx to ANT. (dB max.)           1.6 (1920 to 1980MHz)           1.7 (1922.4 to 1977.6MHz)*           1.8 (1920.48 to 1979.52MHz)           1.6 (1920 to 1980MHz)           1.9 (1922.4 to 1977.6MHz)*           2.0 (1920 to 1980MHz)           3.4 (1850.5 to 1909.5MHz)           3.7 (1850 to 1910MHz)*           3.0 (1852.4 to 1907.6MHz)*           3.7 (1850.48 to 1909.52MHz)           2.5 (1710 to 1755MHz)	I.L. of ANT. to Rx (dB max.)           2.1 (2110 to 2170MHz)           2.4 (2112.4 to 2167.6MHz)*           2.5 (2110.48 to 2169.52MHz)           2.4 (2110 to 2170MHz)           1.7 (2112.4 to 2167.6MHz)*           1.8 (2110 to 2170MHz)           3.6 (1930.5 to 1989.5MHz)           3.9 (1930 to 1990MHz)           3.2 (1932.4 to 1987.6MHz)*           4.0 (1930.48 to 1989.52MHz)           2.5 (2110 to 2155MHz)	Isolation (Tx to Rx) (dB min.)           53 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1922.4 to 1977.6MHz)*           50 (2112.4 to 2167.6MHz)*           50 (1920 to 1980MHz)           44 (2110 to 2170MHz)           55 (1920 to 1980MHz)           44 (2110 to 2170MHz)           55 (1920 to 1980MHz)           50 (2110 to 2170MHz)           52 (1850.5 to 1909.5MHz)           46 (1930.5 to 1989.5MHz)           54 (1852.4 to 1907.6MHz)*           50 (1932.4 to 1987.6MHz)           47 (1710 to 1755MHz)           46 (2110 to 2155MHz)
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYFH1G95GA0F55 SAYRF1G95HN0F0A SAYFP1G88BA0B00 SAYFP1G73BA0F00 SAYFP1G73CA0F00	Application Band1 Band1 Band1 Band1 Band2 BC1 Band4 AWS Band4 AWS	Size (mm)           2.5 × 2.0           2.5 × 2.0           2.0 × 1.6           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Balanced LR Rx Balanced	Rx Impedance           100ohm	I.L. of Tx to ANT. (dB max.)           1.6 (1920 to 1980MHz)           1.7 (1922.4 to 1977.6MHz)*           1.8 (1920.48 to 1979.52MHz)           1.6 (1920 to 1980MHz)           1.6 (1920 to 1980MHz)           1.9 (1922.4 to 1977.6MHz)*           2.0 (1920 to 1980MHz)           3.4 (1850.5 to 1909.5MHz)           3.7 (1850 to 1910MHz)           3.0 (1852.4 to 1907.6MHz)*           2.5 (1710 to 1755MHz)           2.1 (1710 to 1755MHz)	I.L. of ANT. to Rx (dB max.)           2.1 (2110 to 2170MHz)           2.4 (2112.4 to 2167.6MHz)*           2.5 (2110.48 to 2169.52MHz)           2.4 (2110 to 2170MHz)           1.7 (2112.4 to 2167.6MHz)*           1.8 (2110 to 2170MHz)           3.6 (1930.5 to 1989.5MHz)           3.9 (1930 to 1990MHz)           3.2 (1932.4 to 1987.6MHz)*           4.0 (1930.48 to 1989.52MHz)           2.5 (2110 to 2155MHz)           2.3 (2110 to 2155MHz)	Isolation (Tx to Rx) (dB min.)           53 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1922.4 to 1977.6MHz)*           50 (2112.4 to 2167.6MHz)*           50 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1920 to 1980MHz) 50 (2110 to 2170MHz)           52 (1850.5 to 1909.5MHz) 46 (1930.5 to 1989.5MHz)           54 (1852.4 to 1907.6MHz)* 50 (1932.4 to 1987.6MHz)           47 (1710 to 1755MHz) 46 (2110 to 2155MHz)           50 (1710 to 1755MHz) 45 (2110 to 2155MHz)
Part NumberSAYFP1G95AA0B00SAYFP1G95AA0B00SAYRJ1G95HA0F0ASAYFH1G95GA0F55SAYRF1G95HN0F0ASAYFP1G888BA0B00SAYFP1G888BA0B00SAYFP1G73BA0F00SAYFP1G73CA0F00SAYRF1G73CA0F0A	Application Band1 Band1 Band1 Band1 Band2 Band2 BC1 Band4 AWS Band4 AWS Band4 AWS	Size (mm)           2.5 x 2.0           2.5 x 2.0           2.0 x 1.6           2.5 x 2.0           2.0 x 1.6	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Balanced LR Rx Balanced LR Rx Balanced	Rx Impedance           100ohm	I.L. of Tx to ANT. (dB max.)           1.6 (1920 to 1980MHz)           1.7 (1922.4 to 1977.6MHz)*           1.8 (1920.48 to 1979.52MHz)           1.6 (1920 to 1980MHz)           1.6 (1920 to 1980MHz)           1.9 (1922.4 to 1977.6MHz)*           2.0 (1920 to 1980MHz)           3.4 (1850.5 to 1909.5MHz)           3.7 (1850 to 1910MHz)           3.0 (1852.4 to 1907.6MHz)*           2.5 (1710 to 1755MHz)           2.1 (1710 to 1755MHz)           1.9 (1712.4 to 1752.6MHz)*           2.0 (1710 to 1755 MHz)	I.L. of ANT. to Rx (dB max.)           2.1 (2110 to 2170MHz)           2.4 (2112.4 to 2167.6MHz)*           2.5 (2110.48 to 2169.52MHz)           2.4 (2110 to 2170MHz)           1.7 (2112.4 to 2167.6MHz)*           1.8 (2110 to 2170MHz)           3.6 (1930.5 to 1989.5MHz)           3.9 (1930 to 1990MHz)           3.2 (1932.4 to 1987.6MHz)*           4.0 (1930.48 to 1989.52MHz)           2.5 (2110 to 2155MHz)           2.3 (2110 to 2155MHz)           2.3 (2110 to 2155MHz)           2.2 (2112.4 to 2152.6MHz)*           2.3 (2110 to 2155MHz)	Isolation (Tx to Rx) (dB min.)           53 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1922.4 to 1977.6MHz)*           50 (2112.4 to 2167.6MHz)*           50 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1920 to 1980MHz) 50 (2110 to 2170MHz)           55 (1920 to 1980MHz) 50 (2110 to 2170MHz)           55 (1920 to 1980MHz) 50 (2110 to 2170MHz)           52 (1850.5 to 1909.5MHz) 46 (1930.5 to 1989.5MHz)           54 (1852.4 to 1907.6MHz)*           50 (1932.4 to 1987.6MHz)           46 (2110 to 2155MHz)           46 (2110 to 2155MHz)           50 (1710 to 1755MHz) 45 (2110 to 2155MHz)           54 (1712.4 to 1752.6 MHz)*           54 (1712.4 to 2152.6MHz)*           54 (121.4 to 2152.6MHz)*
Part Number SAYFP1G95AA0B00 SAYRJ1G95HA0F0A SAYFH1G95GA0F55 SAYRF1G95HN0F0A SAYFP1G88BA0B00 SAYFP1G73BA0F00 SAYFP1G73CA0F00 SAYFP1G73CA0F0A SAYFP836MAJ0F00	Application Band1 Band1 Band1 Band1 Band2 Band2 BC1 Band4 AWS Band4 AWS Band4 AWS Band4 AWS Band5 BC0	Size (mm)           2.5 × 2.0           2.5 × 2.0           2.0 × 1.6           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0           2.5 × 2.0	Layout Rx Unbalanced LR Rx Balanced LR Rx Unbalanced LR Rx Unbalanced LR Rx Balanced LR Rx Balanced LR Rx Balanced LR Rx Balanced	Rx Impedance           100ohm           100ohm	I.L. of Tx to ANT. (dB max.)           1.6 (1920 to 1980MHz)           1.7 (1922.4 to 1977.6MHz)*           1.8 (1920.48 to 1979.52MHz)           1.6 (1920 to 1980MHz)           1.6 (1920 to 1980MHz)           1.6 (1920 to 1980MHz)           1.9 (1922.4 to 1977.6MHz)*           2.0 (1920 to 1980MHz)           3.4 (1850.5 to 1909.5MHz)           3.7 (1850 to 1910MHz)           3.0 (1852.4 to 1907.6MHz)*           3.7 (1850.48 to 1909.52MHz)           2.5 (1710 to 1755MHz)           2.1 (1710 to 1755MHz)           1.9 (1712.4 to 1752.6MHz)*           2.0 (1710 to 1755 MHz)           1.8 (824 to 849MHz)	I.L. of ANT. to Rx (dB max.)           2.1 (2110 to 2170MHz)           2.4 (2112.4 to 2167.6MHz)*           2.5 (2110.48 to 2169.52MHz)           2.4 (2110 to 2170MHz)           1.7 (2112.4 to 2167.6MHz)*           1.8 (2110 to 2170MHz)           3.6 (1930.5 to 1989.5MHz)           3.9 (1930 to 1990MHz)           3.2 (1932.4 to 1987.6MHz)*           4.0 (1930.48 to 1989.52MHz)           2.3 (2110 to 2155MHz)           2.3 (2110 to 2155MHz)           2.4 (869 to 894MHz)	Isolation (Tx to Rx) (dB min.)           53 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1922.4 to 1977.6MHz)*           50 (2112.4 to 2167.6MHz)*           50 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1920 to 1980MHz) 44 (2110 to 2170MHz)           55 (1920 to 1980MHz) 50 (2110 to 2170MHz)           55 (1920 to 1980MHz) 46 (1930.5 to 1909.5MHz)           54 (1852.4 to 1907.6MHz)* 50 (1932.4 to 1987.6MHz)           50 (1710 to 1755MHz) 46 (2110 to 2155MHz)           45 (2110 to 2155MHz)           54 (1712.4 to 1752.6 MHz)* 45 (2112.4 to 2152.6MHz)*           54 (824 to 849MHz) 45 (869 to 894MHz)





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Part Number	Application	Size (mm)	Layout	Rx Impedance	I.L. of Tx to ANT. (dB max.)	I.L. of ANT. to Rx (dB max.)	Isolation (Tx to Rx) (dB min.)			
SAYFH836MBA0F00	Band5 BC0	2.0 x 1.6	Rx Unbalanced LR	100ohm	1.8 (824 to 849MHz)	2.1 (869 to 894MHz)	55 (824 to 849MHz) 50 (869 to 894MHz)			
SAYFH836MCC0F0A	Band5 BC0	2.0 x 1.6	Rx Balanced LR	100ohm	1.8 (826.4 to 846.6MHz)* 1.9 (824 to 849MHz)	2.4 (871.4 to 891.6MHz)* 2.5 (869 to 894MHz)	55 (824 to 849MHz) 50 (869 to 894MHz)			
SAYFP897MBA0B00	Band8	2.5 x 2.0	Rx Unbalanced LR	100ohm	3.2 (880.48 to 914.52MHz)	3.5 (925.48 to 959.52MHz)	50 (880.48 to 914.52MHz) 41 (925.48 to 959.52MHz)			
SAYRJ897MCA0B0A	Band8	2.5 x 2.0	Rx Balanced LR	100ohm	2.4 (882.4 to 912.6MHz)*	3.0 (927.4 to 957.6MHz)* 3.3 (925 to 960MHz)	57 (882.4 to 912.6MHz)* 51 (927.4 to 957.6MHz)*			
SAYFH897MHC0F0A	Band8	2.0 x 1.6	Rx Balanced LR	100ohm	2.5 (882.4 to 912.6MHz)*	2.5 (927.4 to 957.6MHz)* 3.3 (925 to 960MHz)	53 (882.4 to 912.6MHz)* 50 (927.4 to 957.6MHz)*			

\* Integration calculation (dBint): dBint = 10 log  $\frac{\left[\sum_{n=2}^{N} \left[\frac{(10^{(Loss(fn-1)/10)} + 10^{(Loss(fn)/10)})}{2} \times (Fn-Fn-1)\right]}{F_N F_1}\right]$ 

