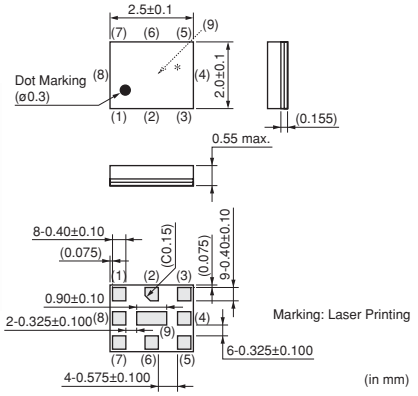
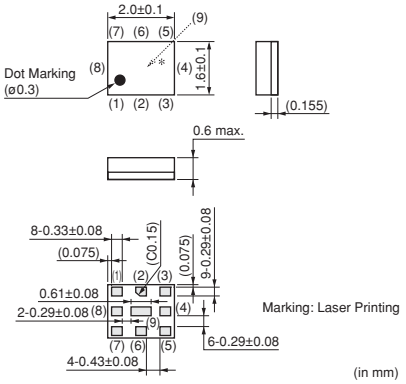
SAW Filters for Mobile Communications

SAW Duplexers

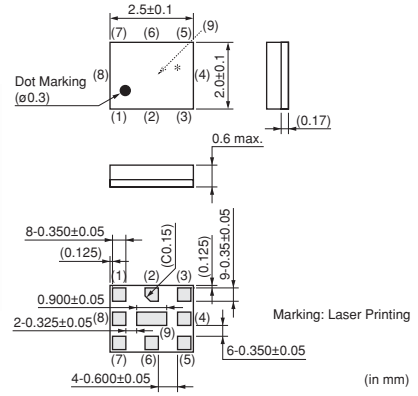
●SAYFP Series



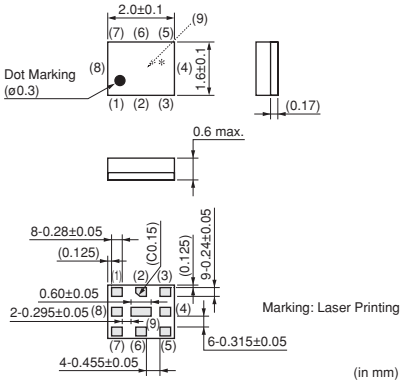
●SAYFH Series



●SAYRJ Series



●SAYRF Series



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.)
SAYFP1G95AA0B00	Band1	2.5 x 2.0	Rx Unbalanced LR	100ohm	1.6 (1920 to 1980MHz)	2.1 (2110 to 2170MHz)	53 (1920 to 1980MHz) 44 (2110 to 2170MHz)
SAYRJ1G95HA0F0A	Band1	2.5 x 2.0	Rx Balanced LR	100ohm	1.7 (1922.4 to 1977.6MHz)* 1.8 (1920.48 to 1979.52MHz)	2.4 (2112.4 to 2167.6MHz)* 2.5 (2110.48 to 2169.52MHz)	55 (1922.4 to 1977.6MHz)* 50 (2112.4 to 2167.6MHz)*
SAYFH1G95GA0F55	Band1	2.0 x 1.6	Rx Unbalanced LR	100ohm	1.6 (1920 to 1980MHz)	2.4 (2110 to 2170MHz)	50 (1920 to 1980MHz) 44 (2110 to 2170MHz)
SAYRF1G95HN0F0A	Band1	2.0 x 1.6	Rx Balanced LR	100ohm	1.9 (1922.4 to 1977.6MHz)* 2.0 (1920 to 1980MHz)	1.7 (2112.4 to 2167.6MHz)* 1.8 (2110 to 2170MHz)	55 (1920 to 1980MHz) 50 (2110 to 2170MHz)
SAYFP1G88BA0B00	Band2	2.5 x 2.0	Rx Unbalanced LR	100ohm	3.4 (1850.5 to 1909.5MHz) 3.7 (1850 to 1910MHz)	3.6 (1930.5 to 1989.5MHz) 3.9 (1930 to 1990MHz)	52 (1850.5 to 1909.5MHz) 46 (1930.5 to 1989.5MHz)
SAYRJ1G88CE0B0A	Band2 BC1	2.5 x 2.0	Rx Balanced LR	100ohm	3.0 (1852.4 to 1907.6MHz)* 3.7 (1850.48 to 1909.52MHz)	3.2 (1932.4 to 1987.6MHz)* 4.0 (1930.48 to 1989.52MHz)	54 (1852.4 to 1907.6MHz)* 50 (1932.4 to 1987.6MHz)
SAYFP1G73BA0F00	Band4 AWS	2.5 x 2.0	Rx Unbalanced LR	100ohm	2.5 (1710 to 1755MHz)	2.5 (2110 to 2155MHz)	47 (1710 to 1755MHz) 46 (2110 to 2155MHz)
SAYFP1G73CA0F00	Band4 AWS	2.5 x 2.0	Rx Balanced LR	100ohm	2.1 (1710 to 1755MHz)	2.3 (2110 to 2155MHz)	50 (1710 to 1755MHz) 45 (2110 to 2155MHz)
SAYRF1G73CA0F0A	Band4 AWS	2.0 x 1.6	Rx Balanced LR	100ohm	1.9 (1712.4 to 1752.6MHz)* 2.0 (1710 to 1755 MHz)	2.2 (2112.4 to 2152.6MHz)* 2.3 (2110 to 2155MHz)	54 (1712.4 to 1752.6 MHz)* 45 (2112.4 to 2152.6MHz)*
SAYFP836MAJ0F00	Band5 BC0	2.5 x 2.0	Rx Unbalanced LR	100ohm	1.8 (824 to 849MHz)	2.4 (869 to 894MHz)	54 (824 to 849MHz) 45 (869 to 894MHz)
SAYRJ836MCA0F0A	Band5 BC0	2.5 x 2.0	Rx Balanced LR	100ohm	2.0 (826.4 to 846.6MHz)* 2.5 (824 to 849MHz)	2.2 (869 to 894MHz)	55 (824 to 849MHz) 50 (869 to 894MHz)

Continued on the following page.

Continued from the preceding page.

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 (dB_{INT}): $dB_{INT} = 10 \log \left[\frac{\sum_{n=2}^{N} \left[\frac{(10^{(Loss(f_{n-1})/10)} + 10^{(Loss(f_n)/10)})}{2} \times (F_n - F_{n-1}) \right]}{F_N \; F_1} \right]$