

SAW FILTERS FOR CDMA (Code Division Multiple Access)

This is an IF band SAW filter for CDMA (Code Division Multiple Access).

■ Features

- Surface mount type
- Low insertion loss.
- Case material is ceramic. It is applicable to IR reflow or VPS.
- Excellent design against shock and vibration.
- Emboss carrier taping applicable.



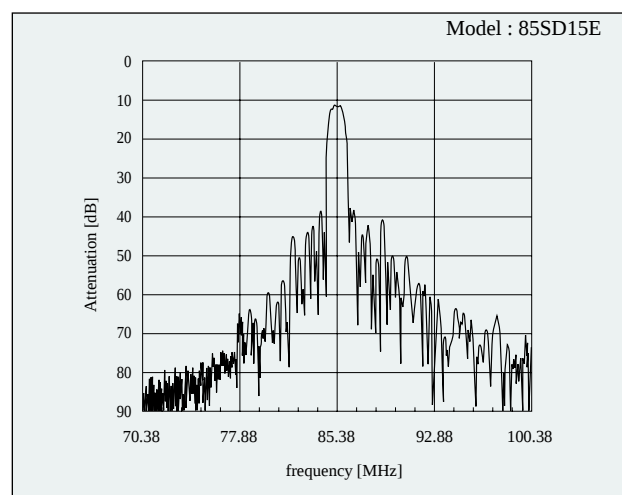
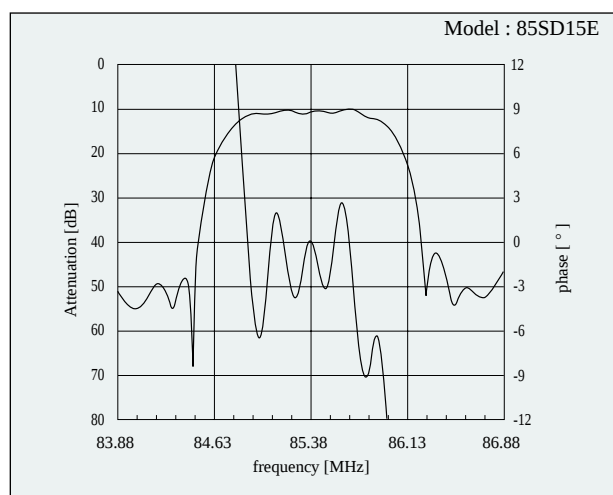
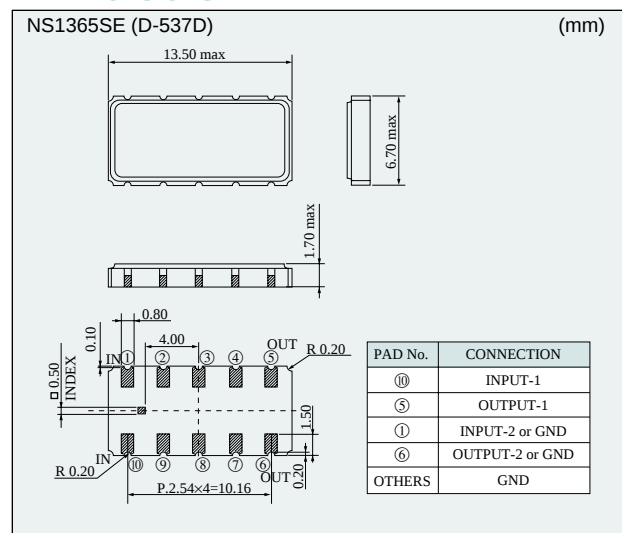
■ Specification

Item		Model	85SD15E
Nominal Frequency (MHz)			85.38
Pass Bandwidth (5dB)			±630kHz min
Ripple (±300kHz max)			0.8dB [*1]
Insertion Loss (Fixed loss)			11dB max
Guaranteed Attenuation Bandwidth	at -9.0MHz		45dB min
	at -1.7MHz		Typ.
	at -0.9MHz		33dB min
	at +0.9MHz		33dB min
	at +1.7MHz		Typ.
	at +9.0MHz		45dB min
Phase Linearity (±630kHz max)			3.5°rms max [*1]
Terminating Impedance	Input		50Ω Single
	Output		2000Ω Balance
Operating Temp. Range			-30 ~ +80°C
Type *			NS1365SE (D-537D)

[*1] Measurement utilizes time-domain gating.

* [Type name] In () is previous name.

■ Dimensions



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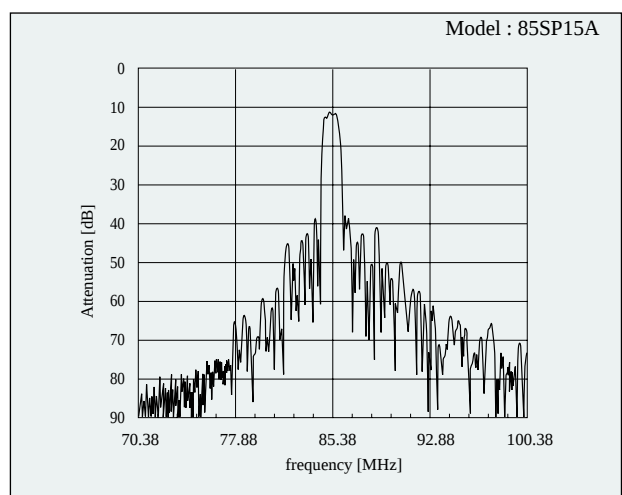
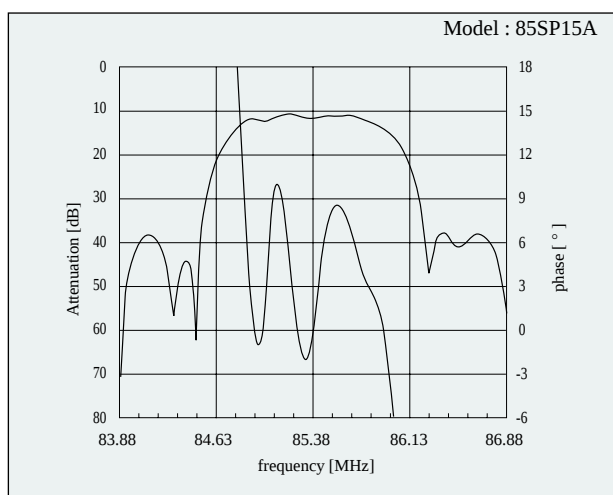
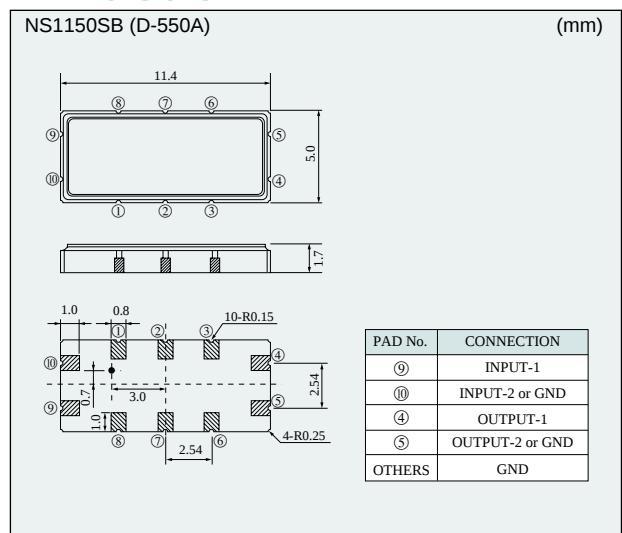
■ Specification

Item	Model	85SP15A
Nominal Frequency (MHz)		85.38
Pass Bandwidth (5dB)		±630kHz min
Ripple (±300kHz max)		0.8dB [*1]
Insertion Loss (Fixed loss)		12.5dB max
Guaranteed Attenuation Bandwidth	at -9.0MHz	47dB min
	at -1.7MHz	35dB min
	at -0.9MHz	33dB min
	at +0.9MHz	33dB min
	at +1.7MHz	35dB min
	at +9.0MHz	47dB min
Phase Linearity (±630kHz max)		3.0°rms max [*1]
Terminating Impedance	Input	50Ω Single
	Output	50Ω Single
Operating Temp. Range		-30 ~ +80°C
Type *		NS1150SB (D-550A)

[*1] Measurement utilizes time-domain gating.

* [Type name] In () is previous name.

■ Dimensions



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■ Specification

Item	Model	85SK15A
Nominal Frequency (MHz)		85.38
Pass Bandwidth (5dB)		±630kHz min
Ripple (±300kHz max)		0.8dB [*1]
Insertion Loss (Fixed loss)		11.5dB max
Guaranteed Attenuation Bandwidth	at -9.0MHz	47dB min
	at -1.7MHz	35dB min
	at -0.9MHz	33dB min
	at +0.9MHz	33dB min
	at +1.7MHz	35dB min
	at +9.0MHz	47dB min
Phase Linearity (±630kHz max)		4.5°rms max [*1]
Terminating Impedance	Input	50Ω Single
	Output	500Ω Balance
Operating Temp. Range		-30 ~ +80°C
Type *		NS9148SA (D-543A)

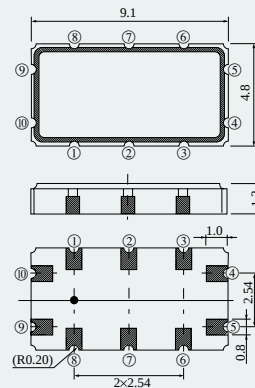
[*1] Measurement utilizes time-domain gating.

* [Type name] In () is previous name.

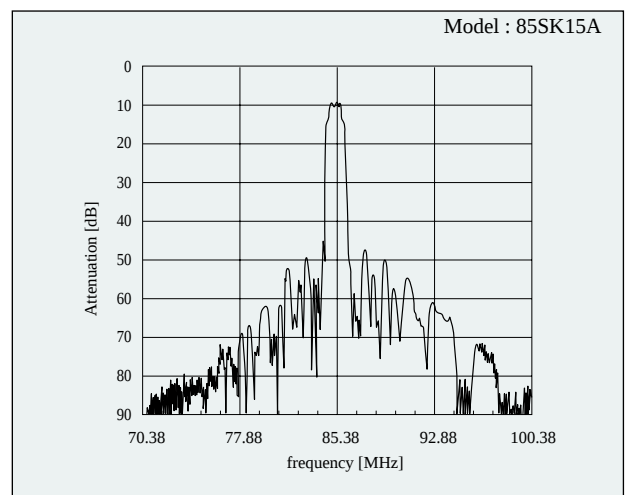
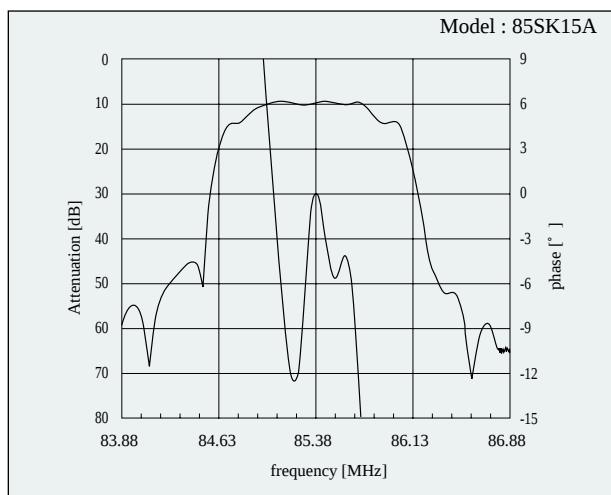
■ Dimensions

NS9148SA (D-543A)

(mm)



PAD No.	CONNECTION
⑨	INPUT
④	OUTPUT-1
⑤	OUTPUT-2
OTHERS	GND



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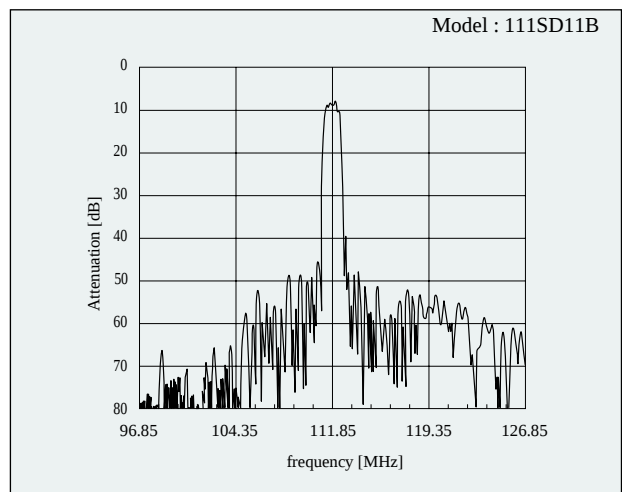
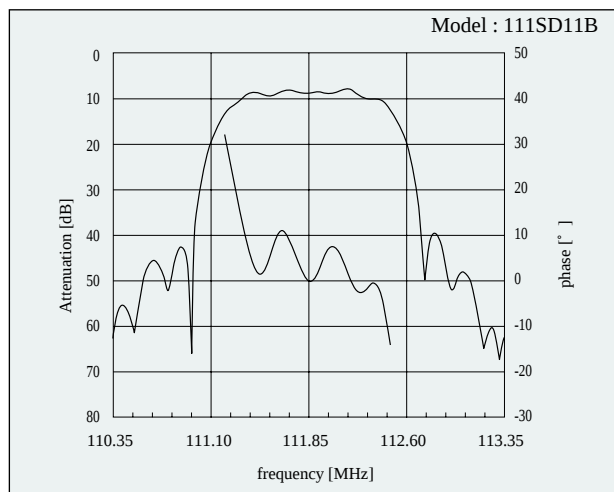
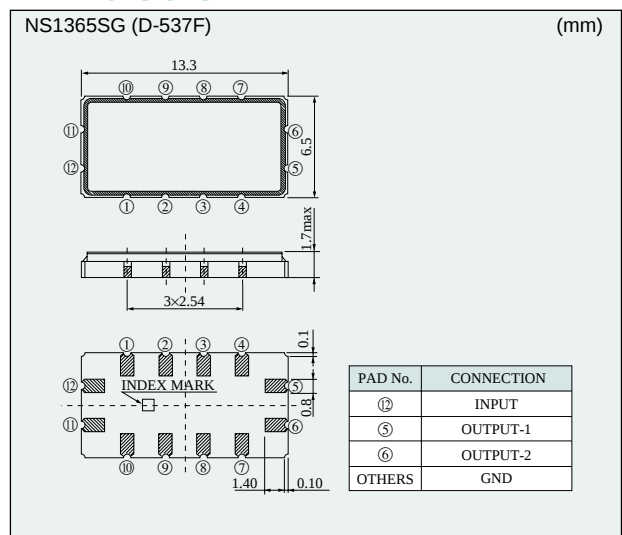
■ Specification

Item	Model	111SD11B
Nominal Frequency (MHz)		111.85
Pass Bandwidth (5dB)		±630kHz min
Ripple (±300kHz max)		0.7dB [*1]
Insertion Loss (Fixed loss)		10dB max
Guaranteed Attenuation Bandwidth	at -9.0MHz	45dB min
	at -0.9MHz	33dB min
	at +0.9MHz	33dB min
	at +9.0MHz	45dB min
Phase Linearity (±630kHz max)		3°rms max [*1]
Terminating Impedance	Input	50Ω Single
	Output	1000Ω Balance
Operating Temp. Range		-30 ~ +80°C
Type *		NS1365SG (D-537F)

[*1] Measurement utilizes time-domain gating.

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■ Dimensions



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■ Specification

Item	Model	210SR06	220SR06C
Nominal Frequency (MHz)		210.38	220.38
Pass Bandwidth (5dB)		$\pm 630\text{kHz}$ min	
Ripple ($\pm 300\text{kHz}$ max)		1.5dB [*1]	
Insertion Loss (Fixed loss)		10dB max	
Guaranteed Attenuation Bandwidth	at -1.25MHz	40dB min	
	at $+1.25\text{MHz}$	40dB min	
Phase Linearity ($\pm 630\text{kHz}$ max)		3.0°rms max [*1]	
Terminating Impedance	Input	50Ω Single	
	Output	500Ω Balance	
Operating Temp. Range		$-30 \sim +80^\circ\text{C}$	
Type *		NS7050SA (D-559A)	

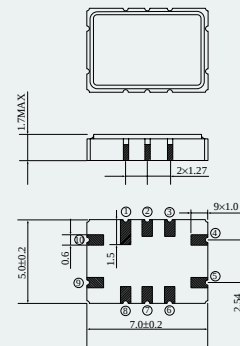
[*1] Measurement utilizes time-domain gating.

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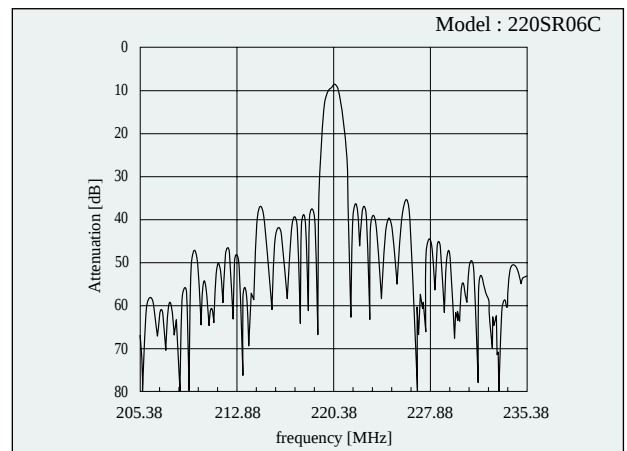
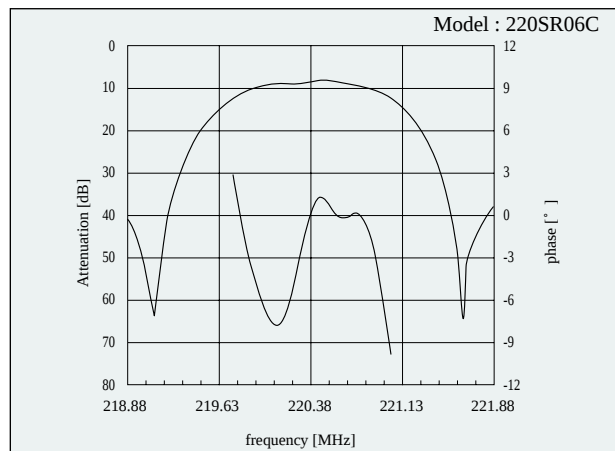
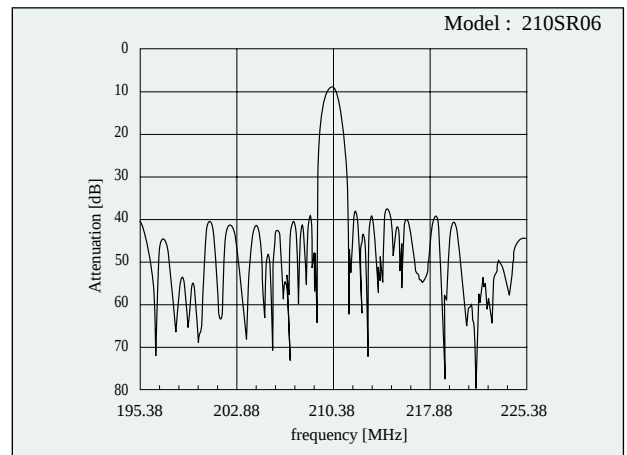
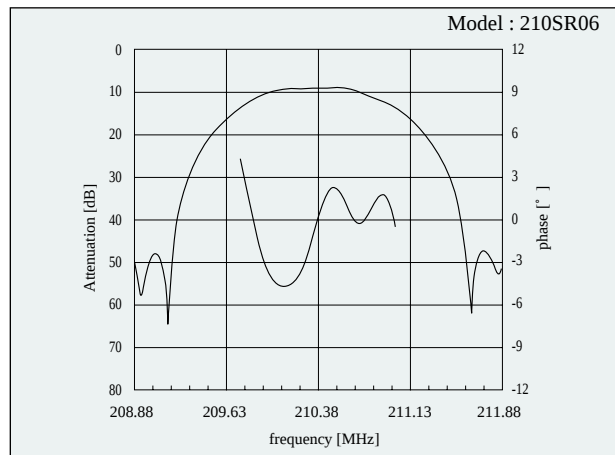
■ Dimensions

NS7050SA (D-559A)

(mm)



PAD No.	CONNECTION
⑨	INPUT-1
⑩	INPUT-2 or GND
④	OUTPUT-1
⑤	OUTPUT-2 or GND
OTHER	GND



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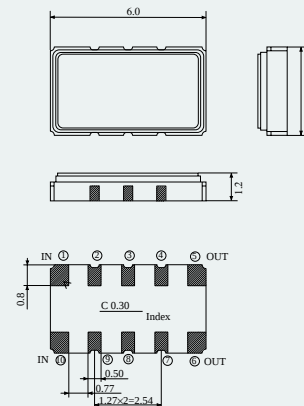
Item	Model	130SW09
Nominal Frequency (MHz)		130.38
Pass Bandwidth	(2dB)	±500kHz min
	(3dB)	±630kHz min
Insertion Loss (Fixed loss)		5.5dB max
Guaranteed Attenuation Bandwidth	at +4.95MHz	50dB min
	at + (9.27 ~ 10.53)MHz	50dB min
Phase Linearity (±630kHz max)		800 ns max
Terminating Impedance	Input	50Ω Single
	Output	50Ω Single
Operating Temp. Range		-30 ~ +75°C
Type *		NS6035SA (D-564)

* [Type name] In () is previous name.

■ Dimensions

NS6035SA (D-564)

(mm)



PAD No.	CONNECTION
⑩	INPUT-1
⑤	OUTPUT-1
①	INPUT-2 or GND
⑥	OUTPUT-2 or GND
OTHER	GND

