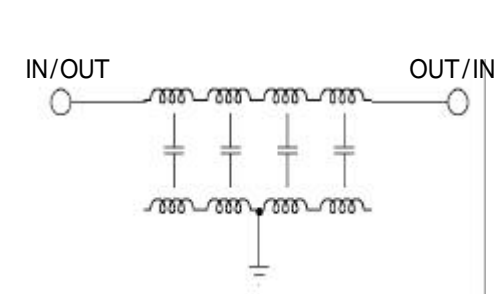
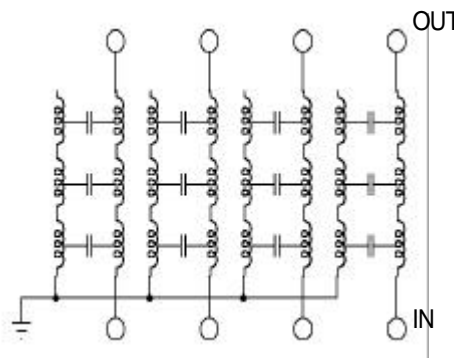
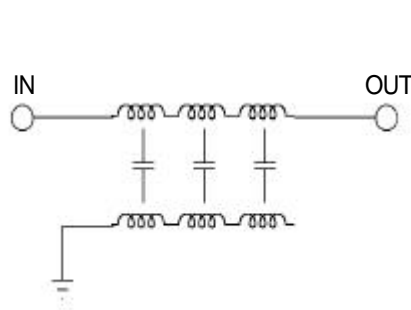
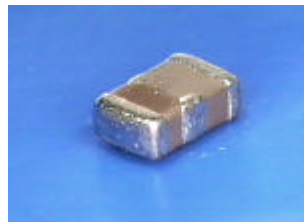
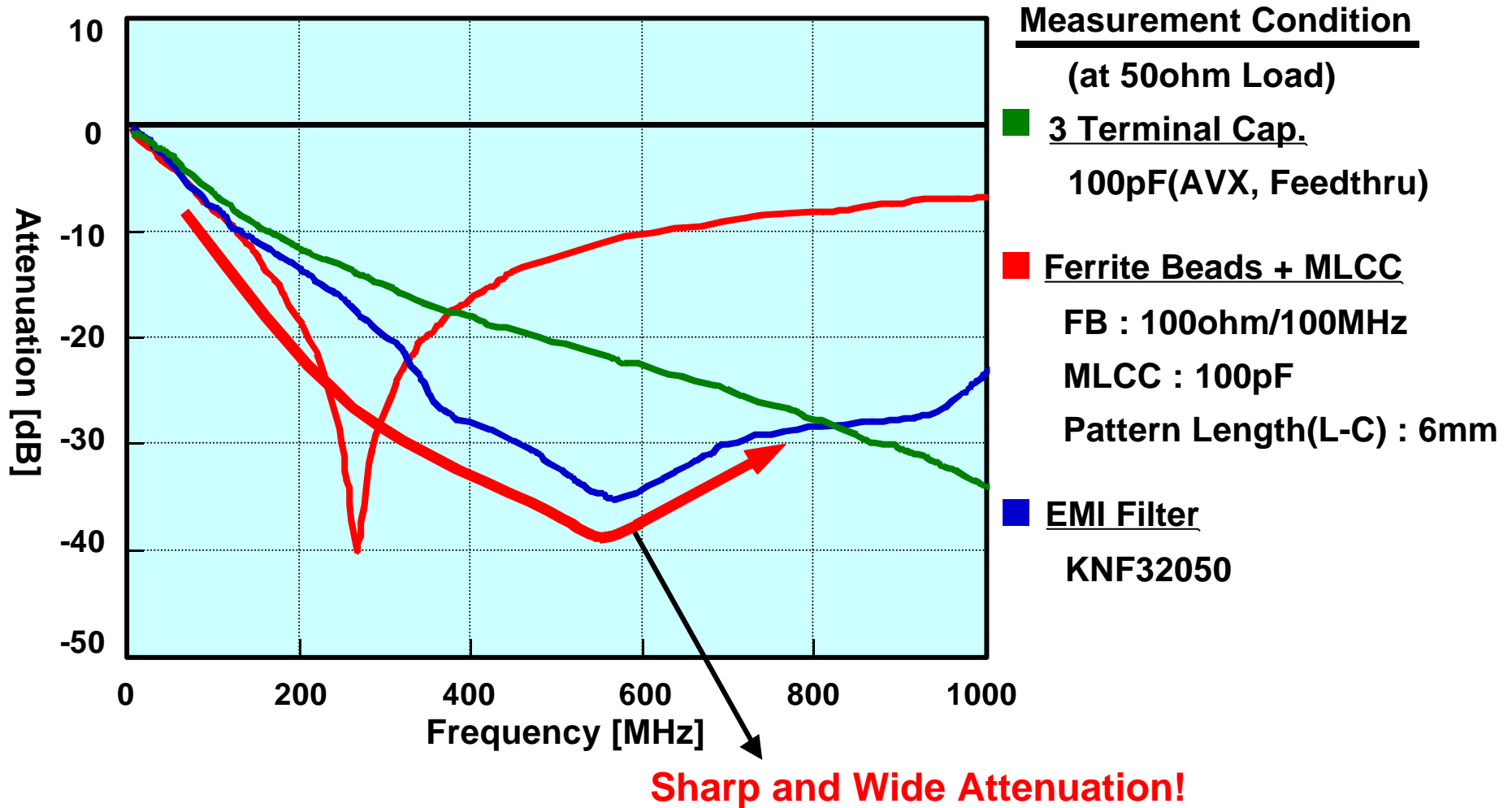


Multi-Layer EMI Noise Filter

KNF / KNA / KNH Series



	30 - 500 MHz	500 MHz -
Current	<p>Ferrite Beads + Capacitor</p> <p>LC Filter</p> <p>➔ <i>Can't meet market Needs!</i></p>	<p>Shield Material</p> <p>➔ <i>Not Suitable for RF/Base Band Section</i></p>
	<p>PC ➔ <i>High Clock Speed</i></p> <p>Cellular Phone ➔ <i>High Frequency Wide & Color LCD</i></p>	
Future	<p>To Meet Market Needs</p> <p>↓</p> <p><i>Distributed Constant LC Filter !</i></p>	



Signal Line Use (100 - 150 mA)

Single Type.....***KNF21 Series***
(2.00 x 1.25 x 0.80 mm)

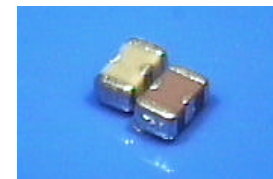


Array Type.....***KNA32 Series***
(3.20 x 1.60 x 0.70 mm)



Power Line Use (1.0 - 2.0 A)

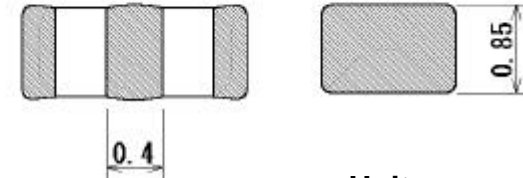
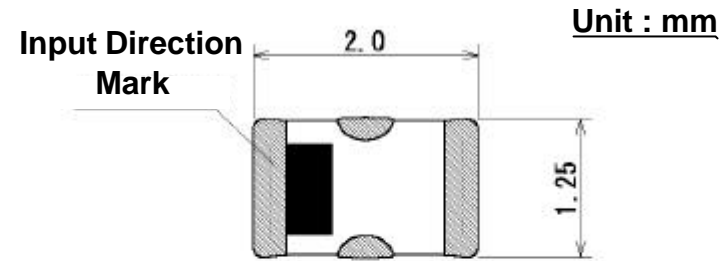
Single Type.....***KNH21 Series***
(2.00 x 1.25 x 0.80 mm)



Parts Numbering

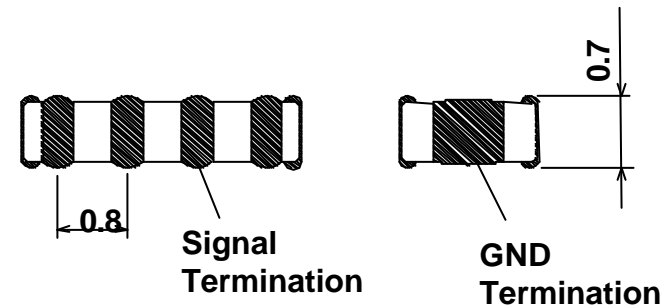
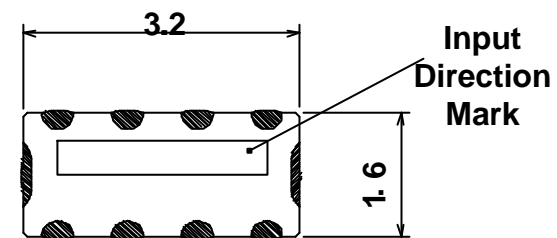
KNF 21 050 - W 3

Series	Size (0805)	Cut off Frequency	Taping Direction	Taping Qty 3 - 3,000pcs/reel
		025 - 25MHz	W-STD	
		050 - 50MHz	X-Option	
		100 -100MHz		
		200 -200MHz		
		400 -400MHz		



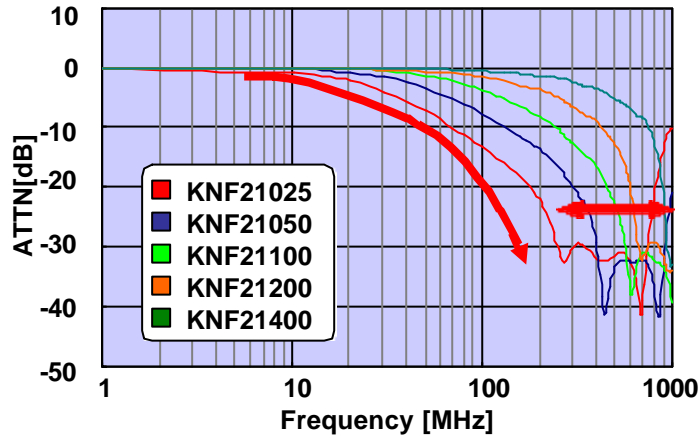
KNA 32 200 - W 3

Series	Size (1206)	Cut off Frequency	Taping Direction	Taping Qty 3 - 3,000pcs/reel
		050 - 50MHz	W-STD	
		075 - 75MHz	X-Option	
		100 -100MHz		
		150 -150MHz		
		200 -200MHz		

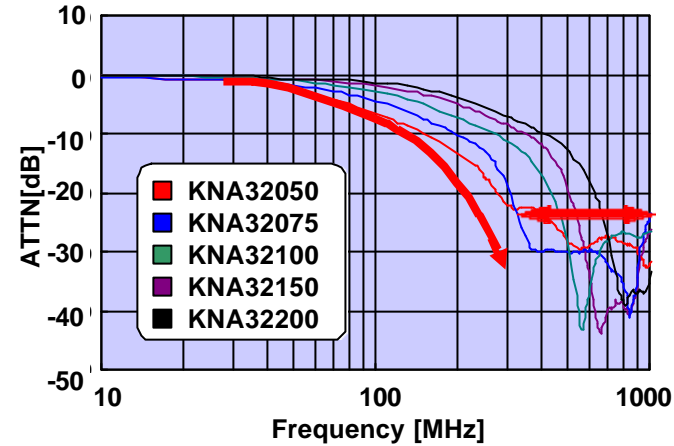


Sharp and excellent noise attenuation Bandwidth !

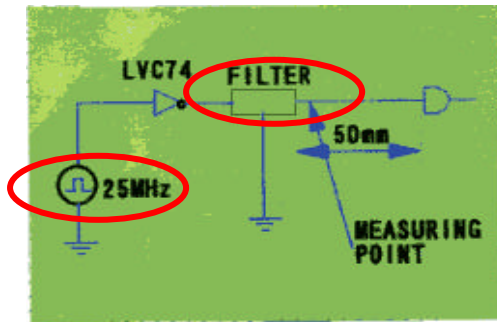
KNF21 Series



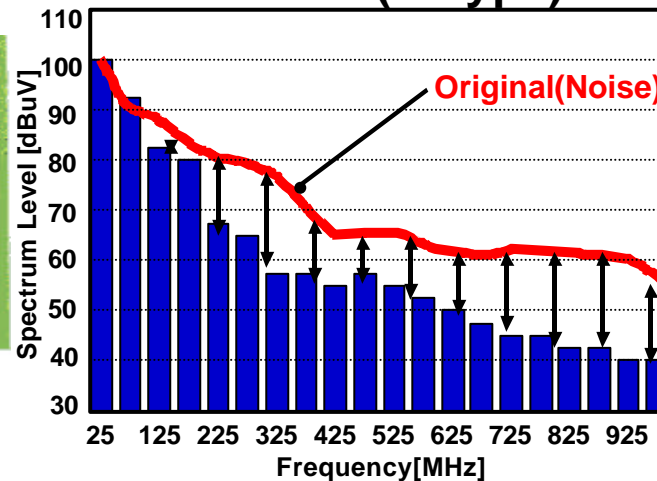
KNA32 Series



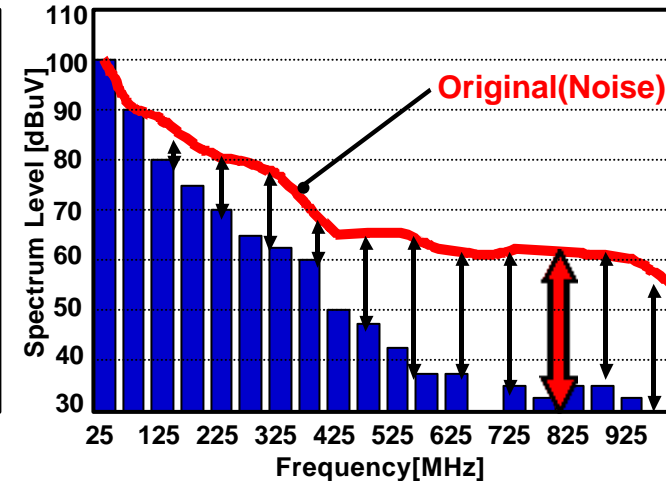
Test Circuit



LC Filter(T-Type)



KNF21100



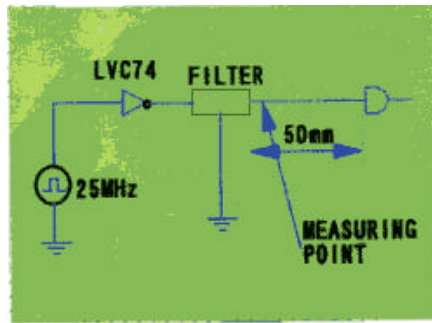
Negligible Wave Form Distortion !

Sharp Attenuation Curve & Low Inductance Value

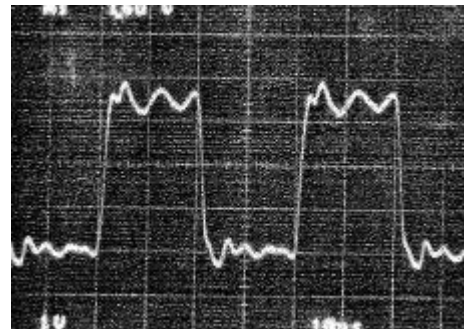


Low Loss at Signal Through Band !

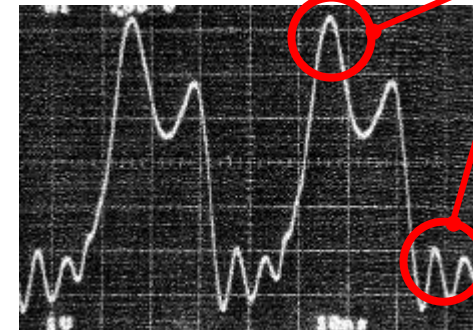
Test Circuit



Original



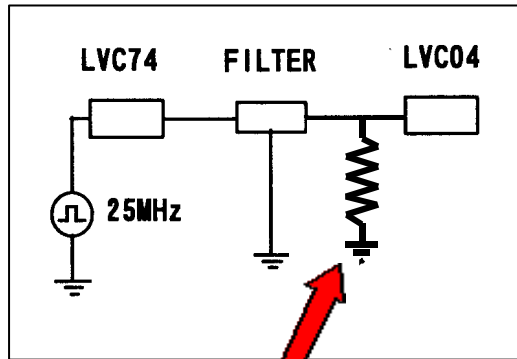
LC Filter(T-Type) **Ringing !**



KNF21100



Impedance Matching Free !



300 ohms



1 Mohms

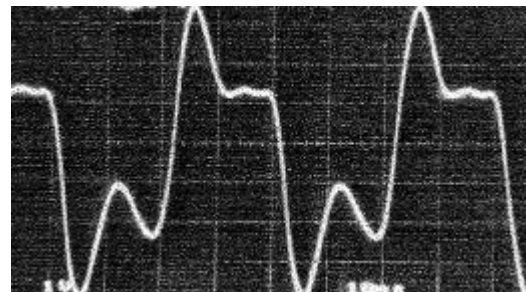


Change Output Impedance !

LC Filter



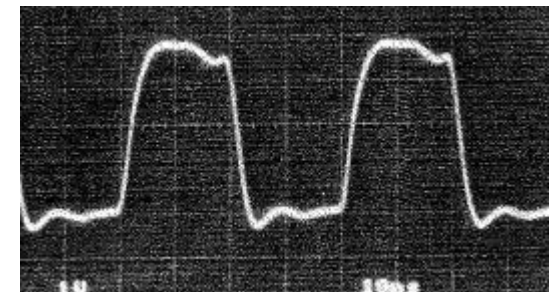
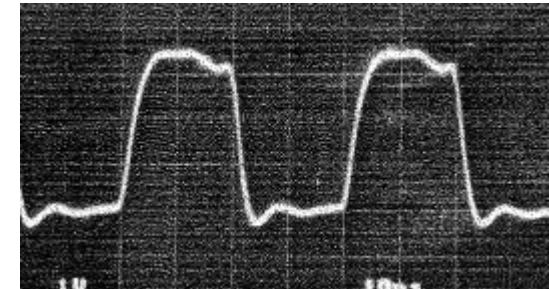
300ohm



1Mohm

Large Impact !

KNF Series



Small Impact !



Reducing time for Impedance Matching !

Parts Numbering

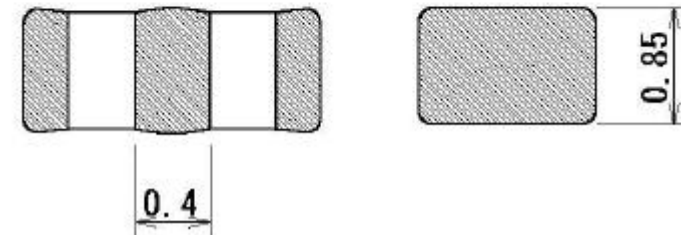
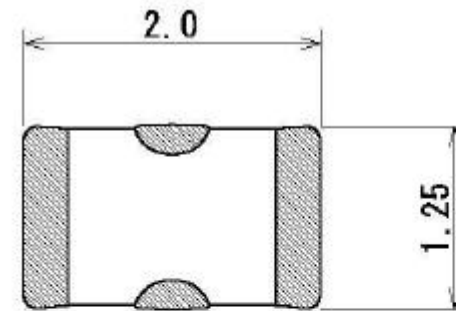
KNH 21 104 - 3 AA

Unit : mm

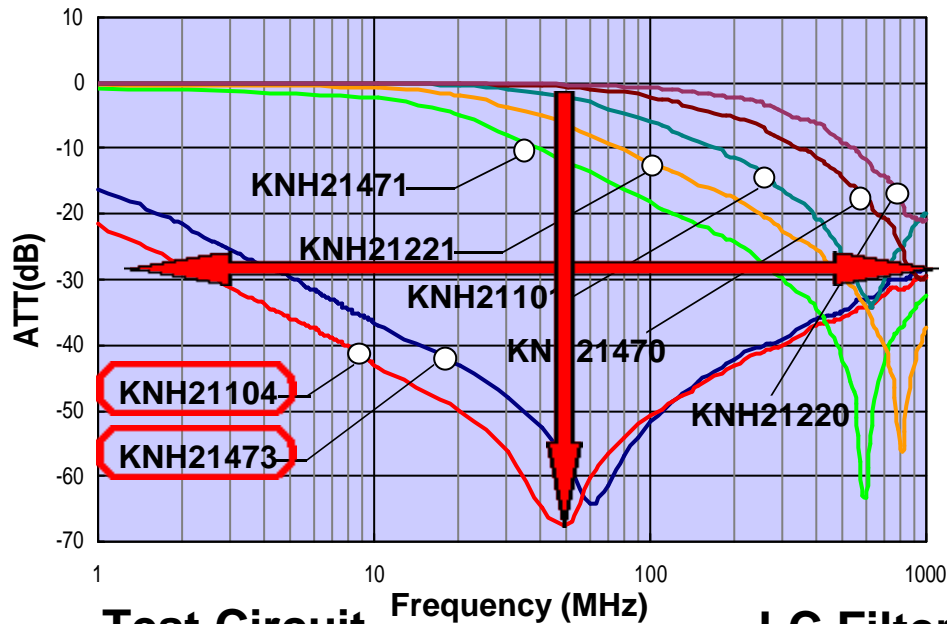
Series	Size	Capacitance	Taping Qty
	(0805)	Value	3 - 3,000pcs/reel

104 - 100nF
 473 - 47nF
 471 - 470nF
 221 - 220pF
 101 - 100pF
 470 - 47pF
 220 - 22pF

Code
AA : STD



Wide and excellent noise attenuation Bandwidth !

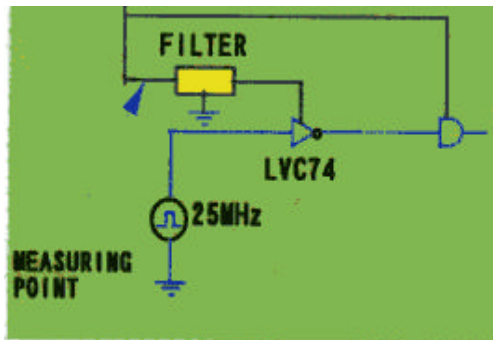


Reducing Cut and Try!

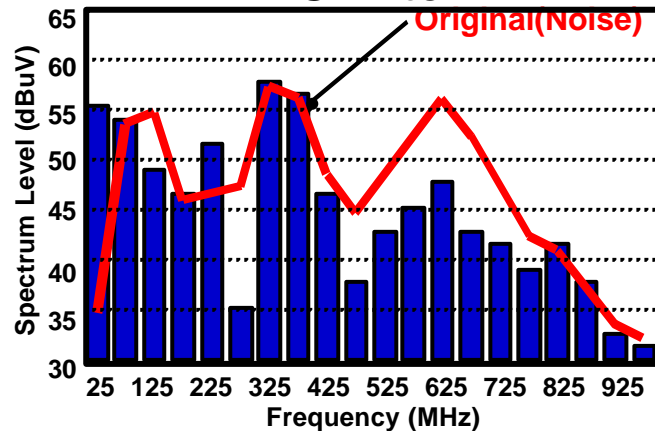


Reducing Development Time & Cost !

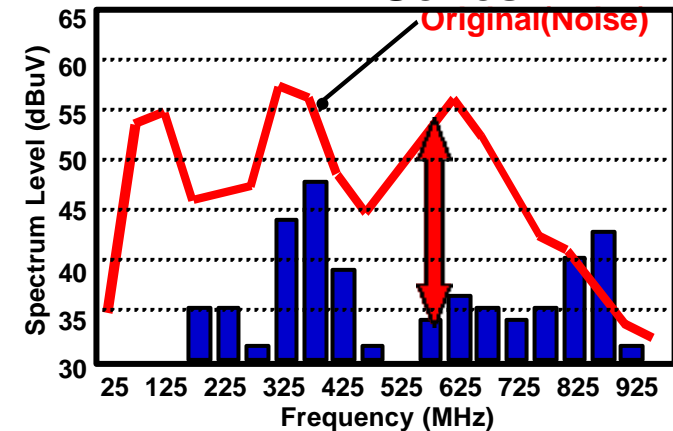
Test Circuit



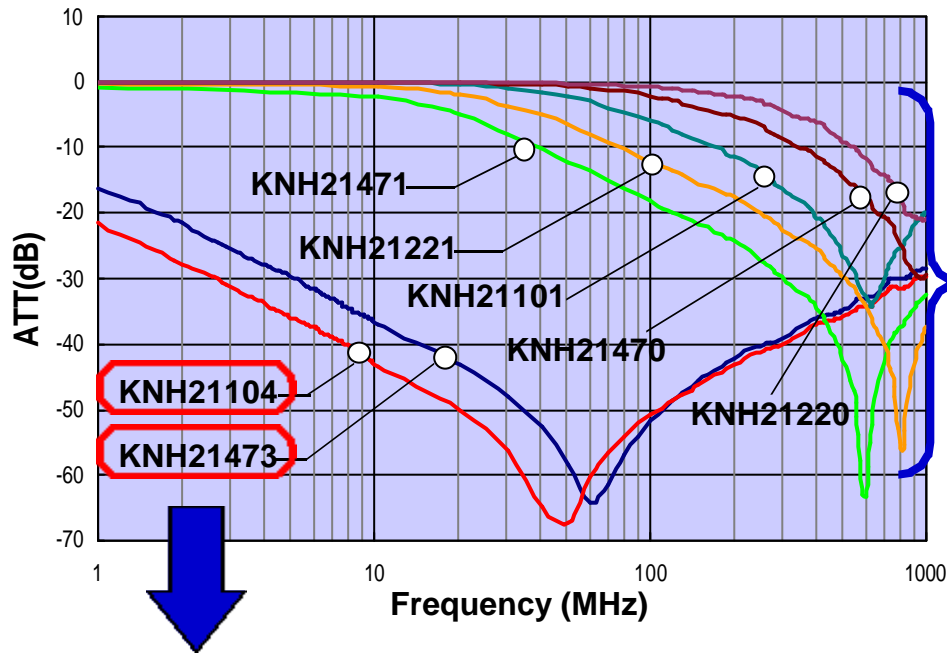
LC Filter



KNH21 Series



High Rated Current(up to 2.0A) !



KNH21220 - 471:1.0A
 (DC Resistance : **80 m ohms!**)
 &
Sharp Attenuation

2.0A
 (DC Resistance : **20 m ohms!**)

High Current Signal Lines !
ex) LCD, etc.

