



Features

- Distributed constant type LC filter. Prevents ringing caused by circuit impedance. Suitable for high speed digital circuits and visual line circuits.
- Stable noise attenuation over wide frequency ranges.
- Low profile (T=0.85mm max.) suitable for miniature electronic equipments.
- First class auto-placement

Applications

- PCs, Laser Printers, Cellular Phone, Clock Data Lines for LCD Display
- High Speed Video Signal Circuits and interface circuits
- High Speed Digital Circuits
- Anti-Noise Solution
Achieves effective noise suppression in noisy high speed circuits without signal waveform distortion

How to Order

KNF 21 050 - W 3
① ② ③ ④ ⑤

① Series

② Size EIA (EIAJ)
32 :1206 (3216)
21 :0805 (2012)

③ Frequency

025	25MHz	200	200MHz
050	50MHz	400	400MHz
100	100MHz		

④ Taping Direction (See Table 1)

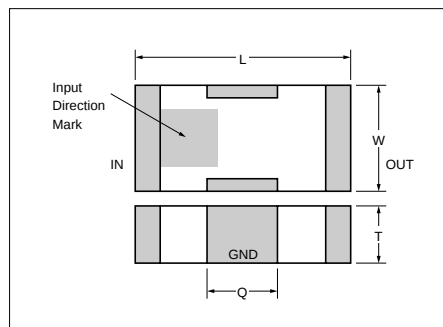
W: Standard

⑤ Quantity per Reel

3	3000pcs
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Dimensions

(Unit : mm)



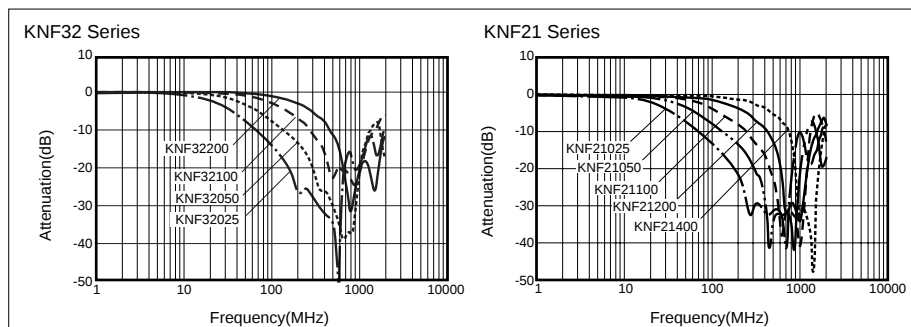
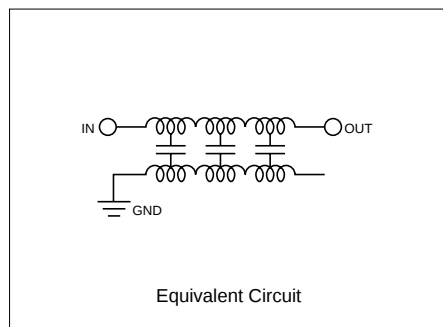
	KNF32	KNF21
L	3.20±0.20	2.00±0.20
W	1.60±0.20	1.25±0.20
T	1.00±0.20	0.80±0.15
Q	0.60±0.30	0.40±0.30

Specification

Part Number	Cut off Freq. (MHz)	Capacitance (+50/-20%) (pF)	20dB Attenuation (Typical)	Rated current(mA)	Rated voltage(VDC)	
KNF32025	25MHz	235pF	200– 600MHz	200mA	25VDC	
KNF32050	50MHz	130pF	350– 850MHz			
KNF32100	100MHz	65pF	450– 950MHz			
KNF32200	200MHz	33pF	700–1200MHz			
KNF21025	25MHz	235pF	200– 600MHz	150mA		25VDC
KNF21050	50MHz	130pF	350– 850MHz			
KNF21100	100MHz	65pF	450– 950MHz			
KNF21200	200MHz	33pF	700–1200MHz			
KNF21400	400MHz	17pF	900–1400MHz			

*Cut off Frequency at Attenuation typical 3dB, Max 6dB
Operating Temperature: -25 to 85(°C)

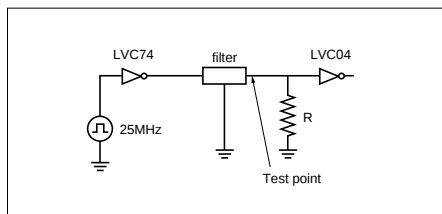
Frequency Characteristics



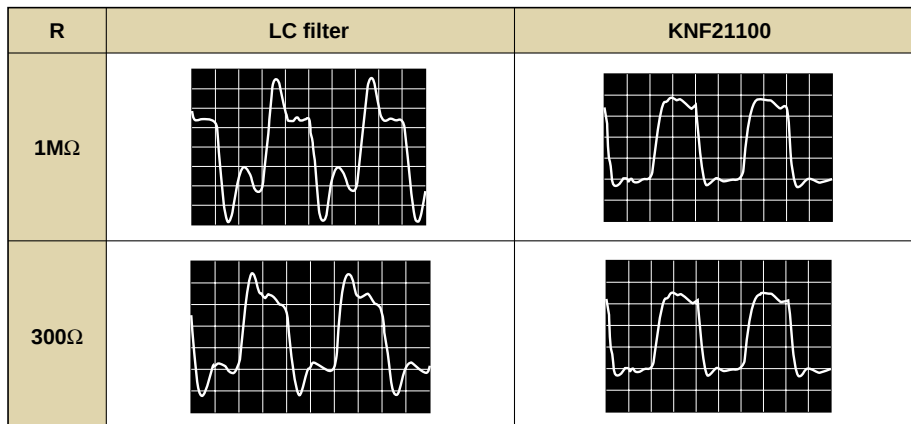
<Impedance Matching Free>

- Stable attenuation against impedance change
- Good impedance matching without ringing on distortion even at the time of IC ON/OFF and pattern layout change

Test circuit



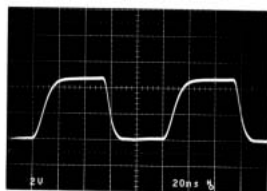
Output wave form(Clock frequency 25MHz)



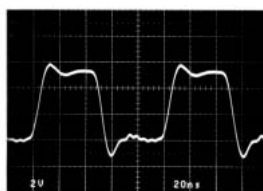
<No Ringing>

Excellent impedance matching

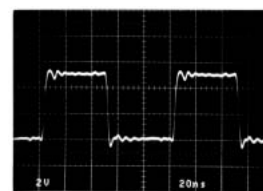
KNF series
Output wave form



LC filter
Output wave form



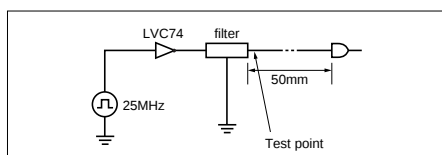
No filter
Output wave form



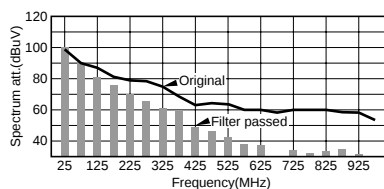
- Wide attenuation up to high frequency range without distortion

Wide attenuation bandwidth

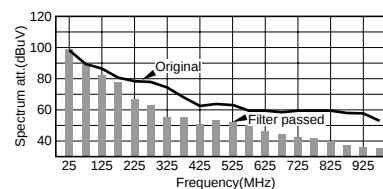
Test circuit



KNF21100

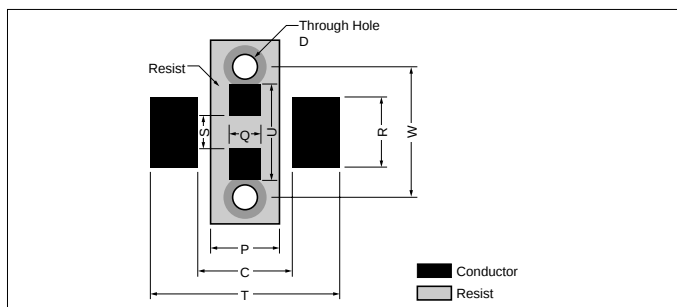


LC Filter (T-Type)



Recommended land pattern

(Unit : mm)



	T	W	R	C	P	Q	S	D	U
KNF21	3.20	2.30	1.00	1.20	0.80	0.40	0.60	0.3-0.4	2.00
KNF32	4.40	3.00	1.40	2.50	1.20	0.60	0.60	0.50	2.40

Packaging specification (Table 1)

- Taping (3,000/reel)

(Unit : mm)

