

RoHS Compliant

Features

- Distributed constant type LC filter. Prevents ringing caused by circuit impedance.
- Stable noise attenuation over wide frequency range.
- Low profile (T=0.95mm 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

How to Order

Old P/N KNF 21 100 - W 3
 ① ② ③ ④ ⑤

New P/N KNF 21 100 C65 DA 3T
 ① ② ③ ⑥ ⑦ ⑧

- ① Series
- ② Size

21	2012
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- ③ Cut off Frequency

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

- ④ Tape & Reel Direction (W: See Packaging Specification)

- ⑤ Quantity per Reel

3	3000 pcs. (KNA21: Std.)
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- ⑥ Capacitance

C17	17pF	C130	130pF
C33	33pF	C235	235pF
C65	65pF		

- ⑦ Application

DA	Digital Circuit in General
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- ⑧ Packaging

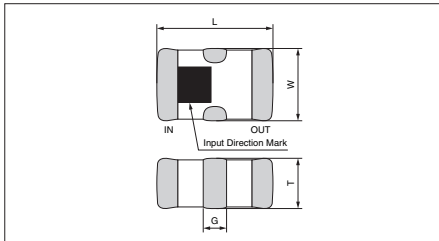
3T	T&R: 3000 pcs. (KNA21: Std.)
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Specifications

Part Number	Cut off Frequency	Capacitance (+50/ -20%)	Attenuation (Typical)	Rated Current	Rated Voltage
Old: KNF21025 New: KNF21025C235DA	25MHz	235pF	200 to 600MHz (@20dB)	150mA	25VDC
Old: KNF21050 New: KNF21050C130DA	50MHz	130pF	350 to 850MHz (@20dB)	150mA	25VDC
Old: KNF21100 New: KNF21100C65DA	100MHz	65pF	450 to 950MHz (@20dB)	150mA	25VDC
Old: KNF21200 New: KNF21200C33DA	200MHz	33pF	700 to 1200MHz (@20dB)	150mA	25VDC
Old: KNF21400 New: KNF21400C17DA	400MHz	17pF	900 to 1400MHz (@20dB)	150mA	25VDC

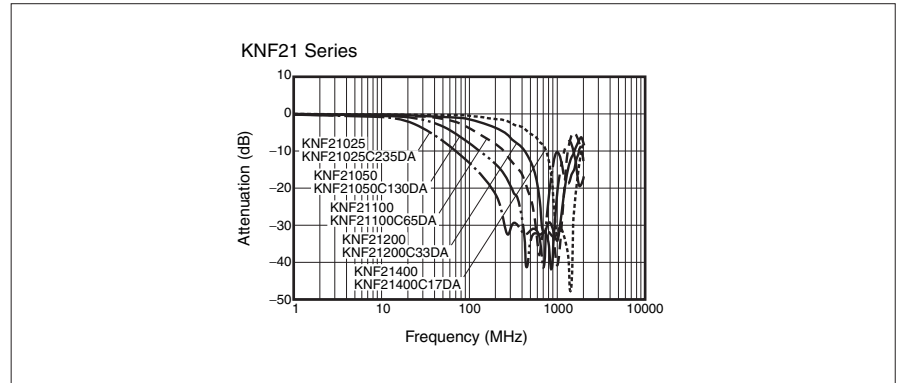
Dimensions

(Unit: mm)



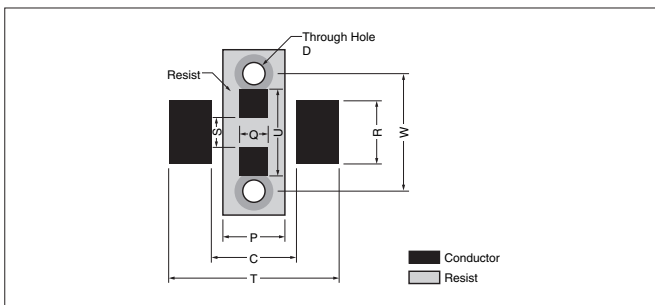
CODE	KNF21
L	2.00±0.20
W	1.25±0.20
T	0.80±0.15
G	0.40±0.30

Attenuation Characteristics



Recommended Land Pattern

(Unit: mm)

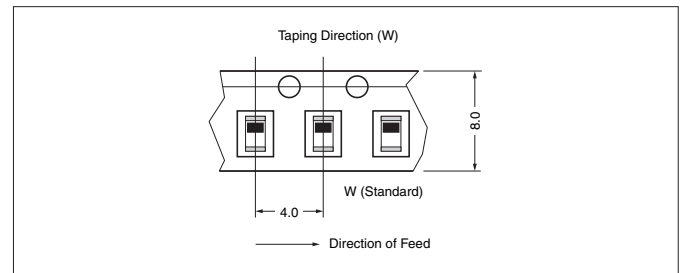


CODE	T	W	R	C	P	Q	S	D	U
KNF21	3.20	2.30	1.00	1.20	0.80	0.40	0.60	0.3 to 0.4	2.00

Packaging Specification

- Taping (3,000/ reel)

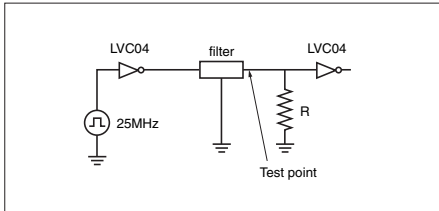
(Unit: mm)



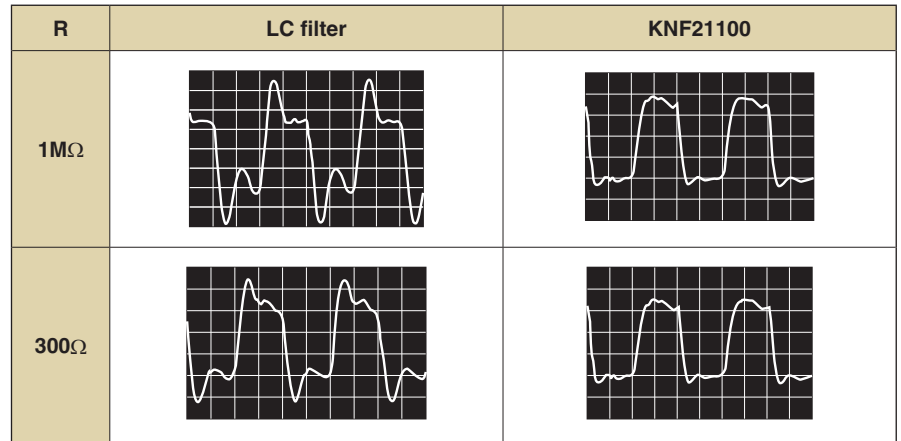
<Impedance Matching Free>

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

Test circuit



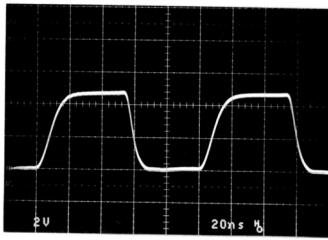
Output Waveform (Clock frequency 25MHz)



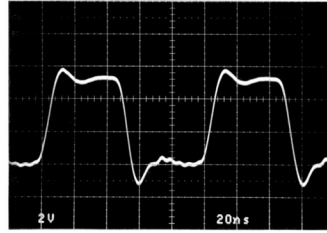
<No Ringing>

Excellent Impedance Matching

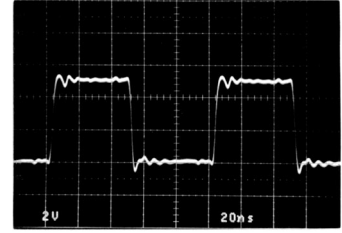
KNF series
Output waveform



LC filter
Output waveform

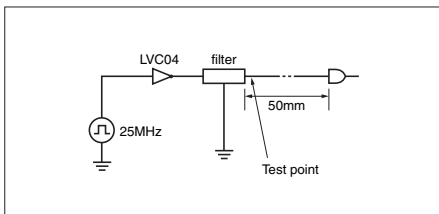


No filter
Output waveform



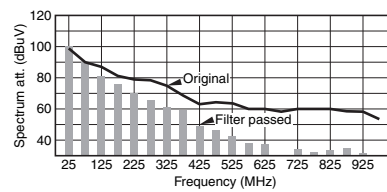
- Wide attenuation up to high frequency range without distortion

Test Circuit



Wide Attenuation Bandwidth

KNF21100



LC Filter (T-Type)

