

RoHS Compliant

Features

- Distributed constant type LC filter. Prevents ringing caused by circuit impedance.
- Stable noise attenuation over wide frequency range.
- Small and low profile.
- KNA16xxxUA Series realize sharp attenuation characteristics over the frequency range from 470MHz for terrestrial digital TV to 2GHz for mobile phones.

Applications

- Data Lines for Mobile Phones (LCD Lines, Video Lines, Bus Lines)
- Bus Lines for Digital Equipment
- Terrestrial Digital TV Broadcasting

How to Order

KNA 16 300 C16 MA 7T S
 ① ② ③ ④ ⑤ ⑥ ⑦

① Series	16	1608 (EIA: 0603)
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③ Cut off Frequency	100	100MHz	220	220MHz
	150	150MHz	300	300MHz
	170	170MHz	350	350MHz
	200	200MHz	390	390MHz
	210	210MHz		

④ Capacitance	C00	0pF	C18	18pF
	C09	9pF	C25	25pF
	C11	11pF	C33	33pF
	C12	12pF	C35	35pF
	C16	16pF	C45	45pF

⑤ Application	MA	Standard cellular phone
	UA	Wide band (1 seg., DVB-H)

⑥ Packaging	7T	T&R: 7000 pcs. (KNA16: Std.)
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⑦ Termination	S	Std.
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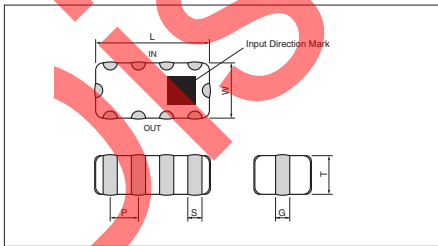
• Storage condition
 Temperature: -10 to +45°C
 Humidity: 45 to 75%RH

Specifications

Part Number	Cut off Frequency	Capacitance (+25/-20%)	Attenuation (Typical)	Rated Current	Rated Voltage	Operating Temperature
KNA16150C33MA7TS	150MHz	33pF	800 to 1000MHz (@25dB) 1000 to 2500MHz (@20dB)	35mA	25VDC	-25 to +85°C
KNA16200C25MA7TS	200MHz	25pF	800 to 1000MHz (@25dB) 1000 to 2500MHz (@20dB)	35mA	25VDC	
KNA16300C16MA7TS	300MHz	16pF	800 to 1000MHz (@25dB) 1000 to 2500MHz (@20dB)	35mA	25VDC	
KNA16390C11MA7TS	390MHz	11pF	800 to 1000MHz (@20dB) 1000 to 2500MHz (@15dB)	35mA	25VDC	
KNA16350C00MA7TS	350MHz	0pF	800 to 1000MHz (@15dB) 1000 to 2500MHz (@6dB)	35mA	25VDC	
KNA16100C45UA7TS	100MHz	45pF	470 to 1000MHz (@30dB) 1000 to 2500MHz (@25dB)	25mA	25VDC	-25 to +85°C
KNA16150C35UA7TS	150MHz	35pF	470 to 1000MHz (@25dB) 1000 to 2500MHz (@20dB)	25mA	25VDC	
KNA16170C25UA7TS	170MHz	25pF	470 to 1000MHz (@20dB) 1000 to 2500MHz (@20dB)	25mA	25VDC	
KNA16200C18UA7TS	200MHz	18pF	470 to 1000MHz (@20dB) 1000 to 2500MHz (@20dB)	25mA	25VDC	
KNA16210C12UA7TS	210MHz	12pF	470 to 1000MHz (@15dB) 1000 to 2500MHz (@15dB)	25mA	25VDC	
KNA16220C09UA7TS	220MHz	9pF	470 to 1000MHz (@10dB) 1000 to 2500MHz (@12dB)	25mA	25VDC	

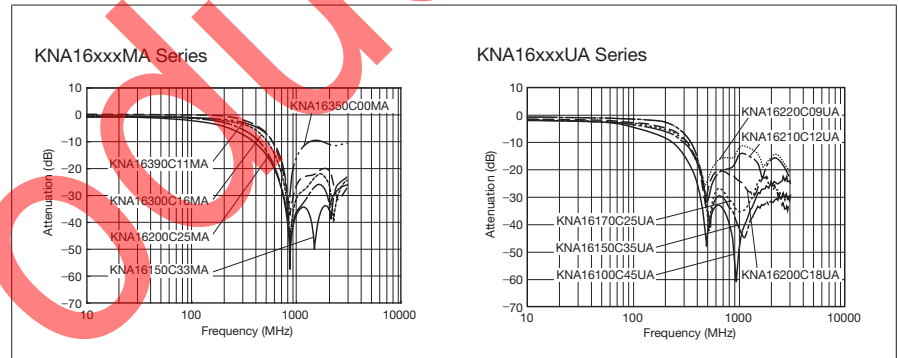
Dimensions

(Unit: mm)



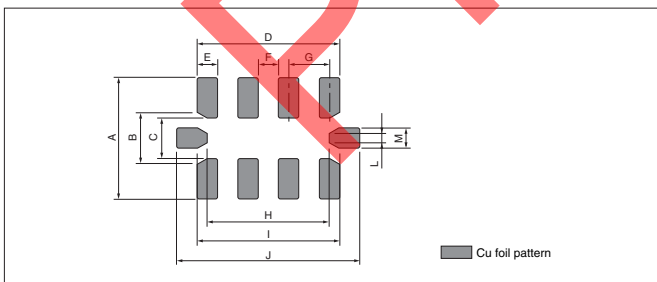
CODE	L	W	T
Dimensions	1.60±0.10	0.8±0.10	0.50±0.10
CODE	P	S	G
Dimensions	0.40	0.20±0.075	0.20±0.075

Attenuation Characteristics



Recommended Land Pattern

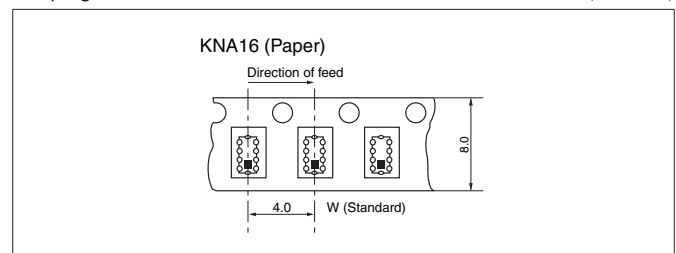
(Unit: mm)



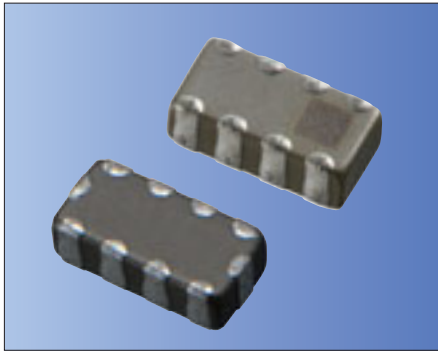
CODE	A	B	C	D	E	F	G	H	I	J	L	M
Dimensions	1.20	0.50	0.40	1.43	0.23	0.17	0.40	1.20	1.40	1.80	0.10	0.20

Packaging Specification

• Taping KNA16 : 7,000/ reel: STD. (Unit: mm)



EMI Filter Array KNA16 Series (For High-Speed Data Line)



RoHS Compliant

Features

- Distributed constant type LC filter. Prevents ringing caused by circuit impedance.
- Stable noise attenuation over wide frequency range.
- Small and low profile.
- 0pF capacitance between Input-Output and GND makes the filter suitable for high speed data interface.

Applications

- Data Lines for Mobile Phones (High Speed Data Lines)
- High Speed Data Lines for Digital Equipment
- Terrestrial Digital TV Broadcasting

How to Order

KNA 16 350 C00 MD 7T S
① ② ③ ④ ⑤ ⑥ ⑦

① Series	1608 (EIA: 0603)	
② Size Code	16	1608 (EIA: 0603)
③ Cut off Frequency	230 230MHz	350 350MHz
	550 550MHz	
④ Capacitance	C00 0pF	C05 5pF
⑤ Application	MD For Mobile phone	UD Wide band (1 seg., DVB-H)
	MA For Mobile phone (for High Speed data)	
⑥ Packaging	7T T&R: 7000 pcs. (KNA16: Std.)	
⑦ Termination	S Std.	

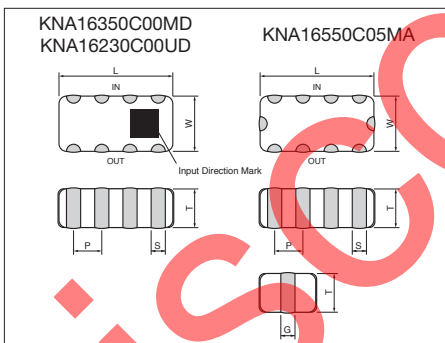
Specifications

Part Number	Cut off Frequency	Capacitance (+25/-20%)	Attenuation (Typical)	Rated Current	Rated Voltage	Operating Temperature
KNA16350C00MD7TS	350MHz	0pF	800 to 1000MHz (@15dB) 1000 to 2500MHz (@ 6dB)	35mA	25VDC	-25 to +85°C
KNA16230C00UD7TS	230MHz	0pF	470 to 1000MHz (@10dB) 1000 to 2500MHz (@ 6dB)	25mA	25VDC	
KNA16550C05MD7TS	550MHz	5pF	800 to 1000MHz (@10dB) 1000 to 2500MHz (@10dB)	35mA	25VDC	

• Storage condition
Temperature: -10 to +45°C
Humidity: 45 to 75%RH

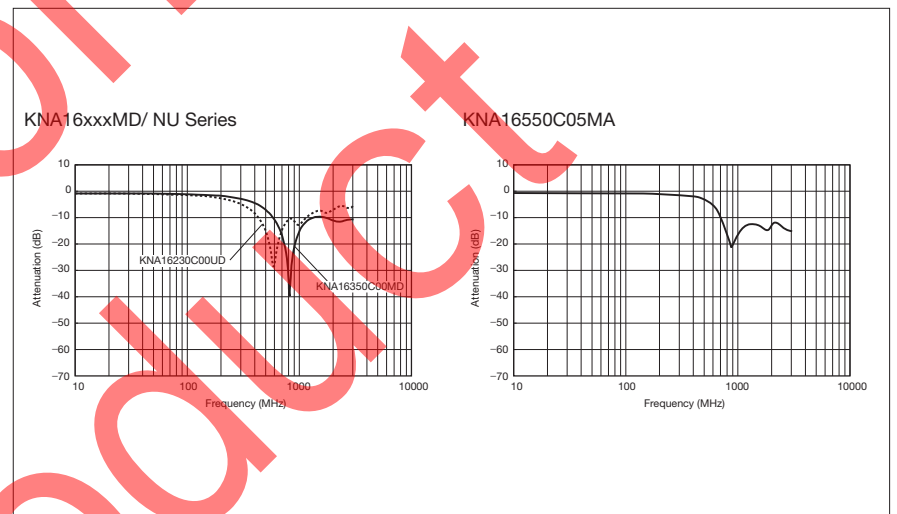
Dimensions

(Unit: mm)



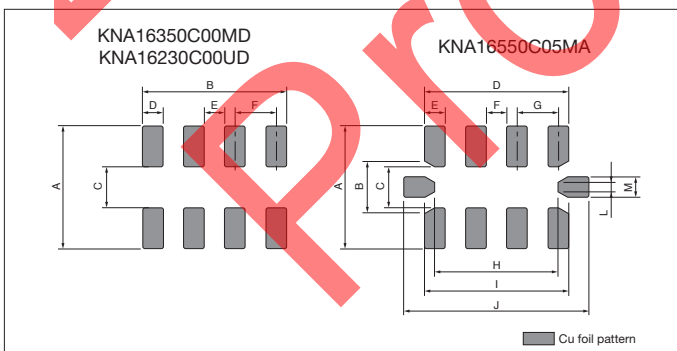
CODE	L	W	T
Dimensions	1.60±0.10	0.8±0.10	0.50±0.10
CODE	P	S	G
KNA16350C00MD KNA16230C00UD	0.40	0.20±0.075	—
KNA16550C05MA	0.40	0.20±0.075	0.20±0.075

Attenuation Characteristics



Recommended Land Pattern

(Unit: mm)



CODE	A	B	C	D	E	F						
KNA16350C00MD KNA16230C00UD	1.20	1.43	0.40	0.23	0.17	0.40						
CODE	A	B	C	D	E	F	G	H	I	J	L	M
KNA16550C05MA	1.20	0.50	0.40	1.43	0.23	0.17	0.40	1.20	1.40	1.80	0.10	0.20

Packaging Specification

- Taping KNA16 : 7,000/ reel: STD. (Unit: mm)

