



**THE DATASHEET OF
NFW31SP407X1E4L**



NF Chip EMIFIL[®] Part Numbering

LC Combined (1)



① Product ID

Product ID	
NF	Chip EMIFIL [®]

② Structure

Code	Structure
W	Wire Wound, LC Combined Type
L	Multilayer, LC Combined Type
E	Block, LC Combined Type

③ Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
31	3.2x1.6mm	1206
61	6.8x1.6mm	2706

④ Features

Code		Features
SP	For General	For Signal Lines, π Circuit
ST		For Signal Lines, T Circuit
PT		For Large Current, T Circuit

⑤ Cut-off Frequency (NFL/NFW Series)

Expressed by three figures. The unit is in hertz (Hz). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

⑤ Capacitance (NFE Series)

Expressed by three figures. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

⑥ Characteristics (NFL/NFW Series)

Code	Characteristics
H/X	Cut-off Frequency

⑥ Characteristics (NFE Series)

Code	Capacitance Temperature Characteristics
B	$\pm 10\%$
C	$\pm 20\%, \pm 22\%$
D	$+20/-30\%, +22/-33\%$
E	$+20/-55\%, +22/-56\%$
F	$+30/-80\%, +22/-82\%$
R	$\pm 15\%$
U	$-750 \pm 120\text{ppm}/^\circ\text{C}$
Z	Other

⑦ Rated Voltage

Code	Rated Voltage
1A	10V
1C	16V
1E	25V
1H	50V
2A	100V

⑧ Electrode

Code	Electrode	Series
3/7	Sn Plating	NFL
4	Lead Free Solder Coating	NFW
9	Others	NFE

⑨ Packaging

Code	Packaging
K	Embossed Taping ($\varnothing 330\text{mm}$ Reel)
L	Embossed Taping ($\varnothing 180\text{mm}$ Reel)
B	Bulk
D	Paper Taping ($\varnothing 180\text{mm}$ Reel)

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