

Varistor included Coil type EMI Filters (Digital Noise Filters)

SMD

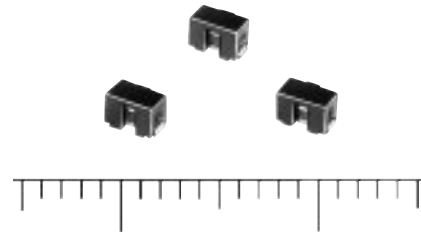
Series: **ELKEV**

■ Features

- High ESD suppression with varistor and included coils.
- No variation in attenuation characteristics as current changes.
- The stable P/N marking using laser technology makes the part number check easier.

■ Typical Specification

- Operating temperature : -20 to +85 °C
- Rated Voltage : Applicable normal voltage for varistor
- Rated Current : DC 2 A
- Reliability characteristics endurance (High Temp.)
Soldering condition (reflow) : 85 °C 50 V 2 A 1000 h (Spec : 500 h)

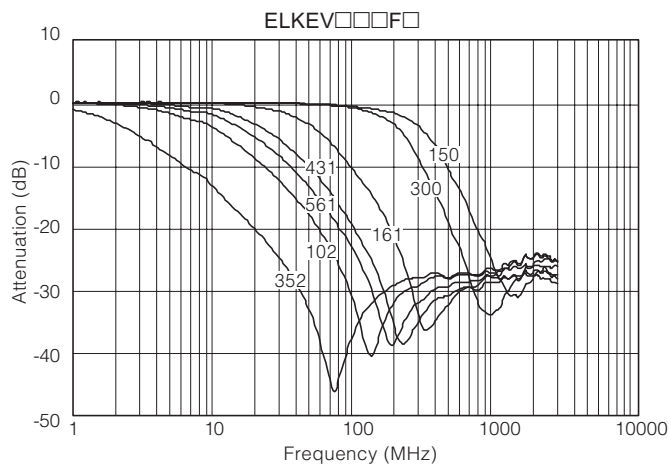


■ Standard Parts

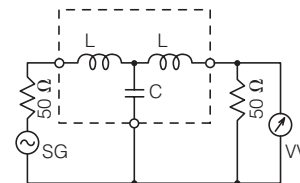
Part No.	Cut off frequency (MHz)	Inner Capacitance (pF typ.)	Rated Voltage (V)	Applicable circuit voltage (V max.)	Indication		min. Packaging unit (pcs.)
ELKEV150FF	250	15	27	15	2.0	150□	2000
ELKEV300FF	200	30	27	15		300□	
ELKEV161FF	50	160	27	15		161□	
ELKEV431FF	20	430	27	15		431□	
ELKEV561FE	10	560	22	12		561□	
ELKEV112FC	8	1050	12	5		112□	
ELKEV352FC	1/DC	3500	12	5		352□	

Note1 : 4th letter (□) of marking indicates the Month Code.

■ Performance characteristics (Reference)

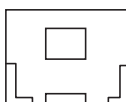


■ Equivalent circuit, measurement block diagram



■ Indication Examples

352P



3 5 2 P

Month Code : 1 Letter

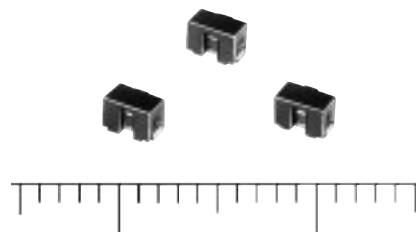
Inner Capacitance : 3 Letters

Coil type EMI Filters (Digital Noise Filters)

Series: **ELKE**□

■ Features

- 3218 case size, 5 A rated current (ELKEA) and 2 A rated current (ELKE).
- High ESD suppression with varistor and included coils.
- No variation in attenuation characteristics as current changes.
- The stable P/N marking using laser technology makes the part number check easier.

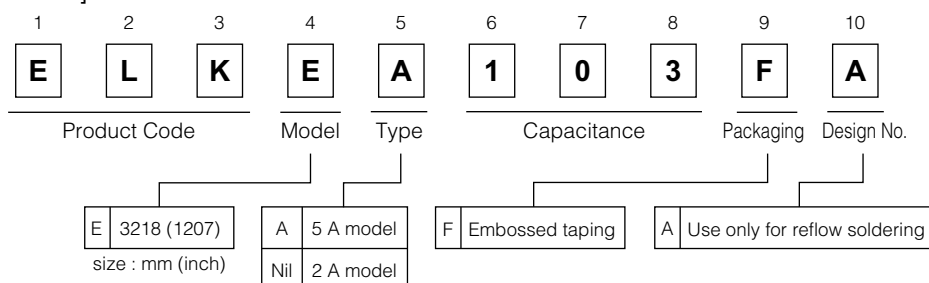


■ Recommended Applications

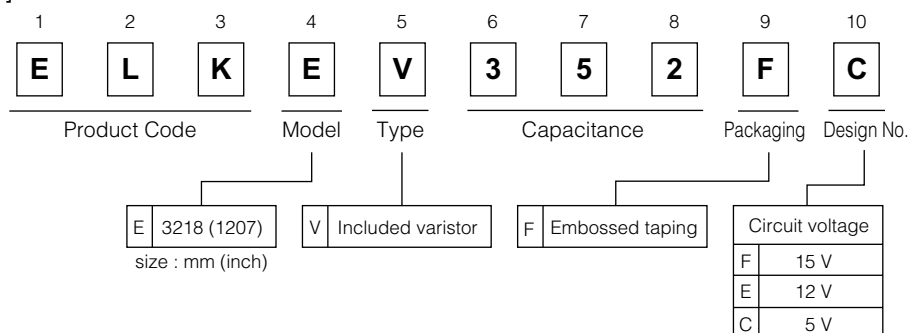
- Data lines, secondary power supply lines (DC lines) for game, digital AV and communications equipment.

■ Explanation of Part Numbers

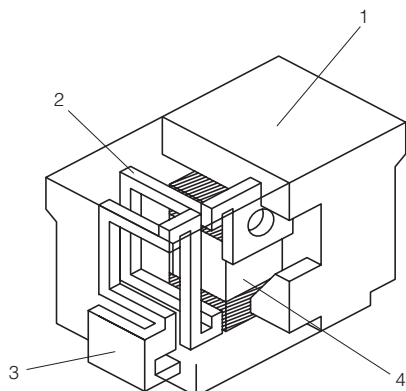
[ELKE, ELKEA Series]



[ELKEV Series]

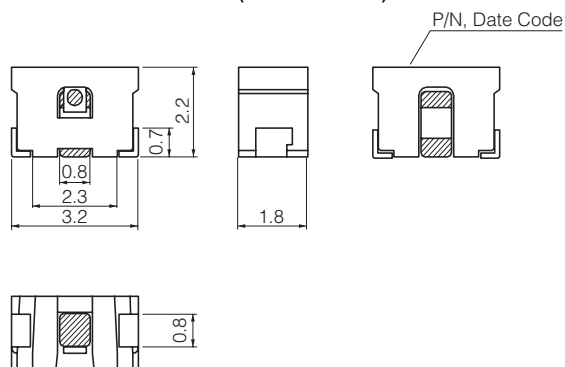


■ Construction

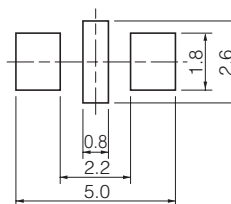


No.	Part Name	Material
1	Enclosure	PPS resin mixed with ferrite powder
2	Coil	Copper alloy plate
3	Terminal	Copper alloy plate with SnCu
4	Capacitor	Chip capacitor

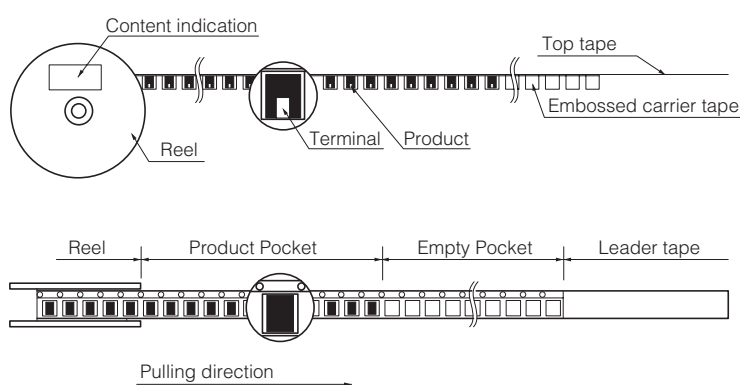
■ Dimensions in mm (not to scale)



■ Land Pattern in mm (not to scale)

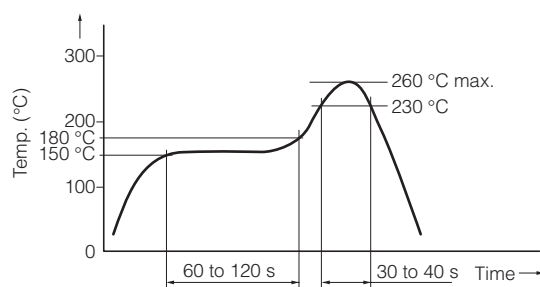


■ Packaging state



Reel Size : $\phi 178$
 Q'ty : 2000 pcs./Reel
 Packaging : Embossed taping

■ Soldering conditions for reflow



■ Storage Conditions

- Package : Normal temperature (-5 to 35 °C), normal humidity (85 %RH max.), shall not be exposed to direct sunlight and harmful gases and care should be taken so as not to cause dew.
- Operating Temperature : -20 to $+85$ °C

■ Storage Period

- Solderability may be reduced due to the conditions of high temperature and high humidity which causes the oxidation of tin-plated terminals. Even if storage conditions are within specified limits, solderability may be reduced with the passage of time. Therefore, please control the storage conditions and try to use the product within 6 months of receipt.