

LC Composite Devices

Type: **CF**



A capacitor is combined with a unique laser-cut inductor as a parallel resonance trap that reduces electromagnetic noise of ESD. It is highly effective as a noise suppressor for data-bus lines and ESD suppression for antenna circuitry within cellular phones.

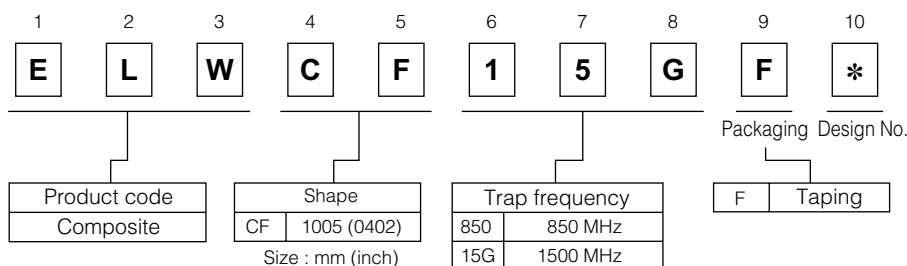
■ Features

- The 2 terminal structure eliminates the need for a GND pattern connection.
- The single circuit makes it possible to use just one product for any required noise suppression, thus making layout easier.
- Typical RF trap frequencies for the different cellular types are available upon request.

■ Recommended Applications

- Cellular phones and high frequency wireless communication equipment.

■ Explanation of Part Numbers



■ 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.

■ Packaging Refer 28 ro 29 page.

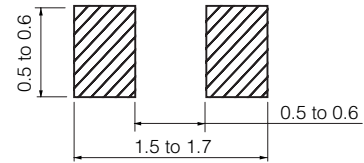
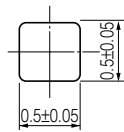
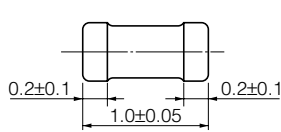
■ Soldering Conditions Refer 30 page.

■ Safety Precautions Refer 31 page.

■ CF Type 1005 (0402)

● Dimensions in mm (not to scale)

● Recommended Land Pattern in mm (not to scale)



■ Standard Parts

● Electrical Characteristics

Part No.	Trap Frequency		Impedance		Inductance			DC Resistance (Ω) max.	DC Current (mA) max.
	(MHz)	Tolerance (MHz)	(Ω) min.	Freq. Range (MHz)	(nH)	Tolerance (%)	Test Freq. (MHz)		
ELWCF850F	850	± 50	1500	800 to 900	99	± 20	100	10	90
ELWCF900F	900	± 50	1500	850 to 950	88	± 20	100	7.2	100
ELWCF15GF	1500	± 100	800	1400 to 1600	31	± 20	100	3.0	130
ELWCF18GF	1800	± 125	450	1675 to 1925	22	± 20	100	1.4	240
ELWCF19GF	1900	± 125	450	1775 to 2025	20	± 20	100	1.3	250
ELWCF21GF	2100	± 125	450	1975 to 2225	16	± 20	100	1.2	260
ELWCF25GF	2450	± 150	450	2300 to 2600	11	± 20	100	1.0	260

* Available for custom trap frequency.

● Performance Characteristics

