Panasonic

Chip EMI Filters

Type: **EXCCET**



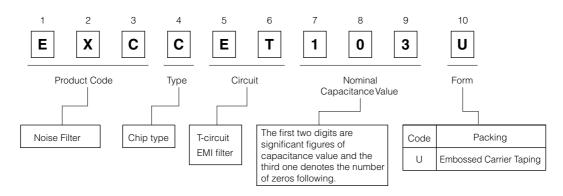
Features

- Rated current (2 A max.)
- Eight capacitance values in a wide range, related to the noise frequency
- Suitable for narrow pitch insertion
- Suitable for applications requiring thin design
- RoHS compliant

Recommended Applications

- Digital equipment such as PCs, word processors, printers, HDD, PPC and communication equipment.
- Digital audio and video equipment.
- AC adapters and switching power supplies.
- Electronic musical instruments and other digital equipment.

Explanation of Part Numbers



Construction Dimensions in mm (not to scale) Ferrite core 2.7±0.3 (Ø 0.5±0.2 0.5±0.2 4.5±0.4 1.8±0.2 Adhesive .0±0.2 Electrode Chip capacitor Size : 1807 inch Mass (Weight) : 92.5 mg/pc.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately. 02 Nov. 2012

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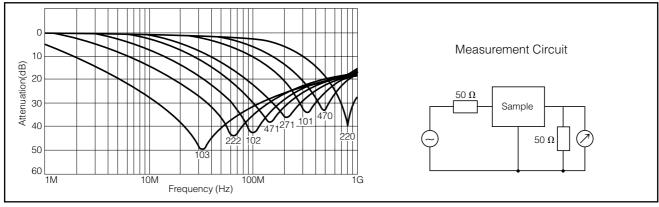
Ratings

Part Number	Rated Voltage (V DC)	Capacitance (pF)	Toler- ance (%)	(2) Characteristics	Rated Current (A DC)	DC Resistance (mΩ)	25 dB Attenuate Frequency (MHz)	15 dB Attenuate Frequency (MHz)
EXCCET220U	50	22	±20	YB	2	50 max.	800 to 1000	600 to 1000
EXCCET470U	50	47	±20	YB	2	50 max.	450 to 550	350 to 1000
EXCCET101U	50	100	±20	YB	2	50 max.	300 to 450	200 to 900
EXCCET271U	50	270	±20	YB	2	50 max.	200 to 300	80 to 700
EXCCET471U	50	470	±20	YB	2	50 max.	100 to 220	50 to 700
EXCCET102U	50	1000	±20	YB	2	50 max.	65 to 200	30 to 700
EXCCET222U	50	2200	±20	YB	2	50 max.	35 to 180	15 to 700
EXCCET103U	50	10000	±20	YB	2	50 max.	15 to 120	15 to 700

(1) Please inquire to us about the particular capacitance value, on a range of 22 to 10000 pF.
(2) Characteristics YB: Maximum capacitance is ±10 % over the temperature range of -25 °C to +85 °C in reference to +20 °C.

● Category Temperature Range -40 °C to +85 °C



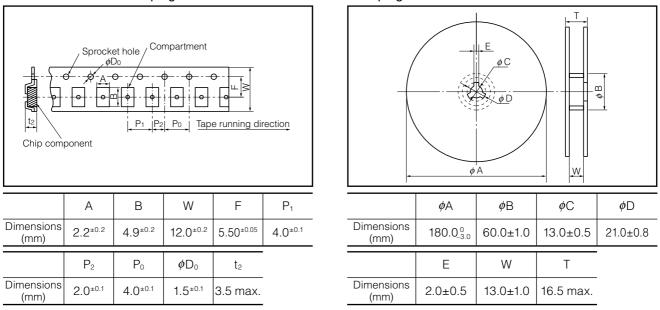


Packaging Methods (Taping)

Standard Quantity

Part Number	Kind of Taping	Pitch (P ₁)	Quantity
	Embossed Carrier Taping	4 mm	1000 pcs./reel

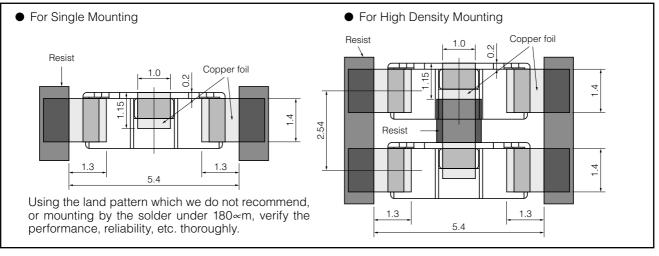
Embossed Carrier Taping



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Taping Reel

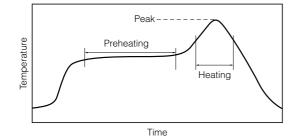
Recommended Land Pattern Design(mm)



Recommended Soldering Conditions

Recommendations and precautions are described below.

- Recommended soldering conditions for reflow
- · Reflow soldering shall be performed a maximum of two times.
- Please contact us for additional information when used in conditions other than those specified.
- Please measure the temperature of the terminals and study every kind of solder and printed circuit board for solderability before actual use.



For soldaring	(Example : Sn-37Pb)
I UI SUIGEIIIIG	$(L \land a \cap p \circ c \land o \cap o \cap o \cap p)$

	Temperature	Time
Preheating	140 °C to 160 °C	60 s to 120 s
Main heating	Above 200 °C	30 s to 40 s
Peak	235 ± 10 °C	max. 10 s
	ering (Example : Si	n/3Ag/0.5Cu)
For lead-free sold	ering (Example : Si Temperature	n/3Ag/0.5Cu) Time
	ering (Example : Si	n/3Ag/0.5Cu)

- Flow soldering
- · Chip EMI Filters cannot be mounted on a printed circuit board by flow soldering. Mount them by reflow soldering.

<Repair with hand soldering>

- Preheat with a blast of hot air or similar method. Use a soldering iron with a tip temperature of 350 °C or less. Solder each electrode for 3 seconds or less.
- Never touch this product with the tip of a soldering iron.

∆Safety Precautions

The following are precautions for individual products. Please also refer to the common precautions for Noise Suppression Device shown on this catalog.

- 1. Use rosin-based flux or halogen-free flux.
- 2. For cleaning, use an alcohol-based cleaning agent. Before using any other type, consult with our sales person in advance.
- 3. Do not apply shock to Chip EMI Filters (hereafter called the filters) or pinch them with a hard tool (e.g. pliers and tweezers). Otherwise, their bodies may be chipped, affecting their performance. Excessive mechanical stress may damage the filters. Handle with care.
- 4. Avoid applying static electricity to the filters.
- 5. The performance of the filters deteriorates in a circuit that is susceptible to surges or other abnormal voltages. Carefully check the circuit operations before use.
- 6. Store the filters in a location with a temperature ranging from −5 °C to +40 °C and a relative humidity of 40 % to 60 %, where there are no rapid changes in temperature or humidity.
- 7. Use the filters within a year after the date of the outgoing inspection indicated on the packages.

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