

CERAFIL®

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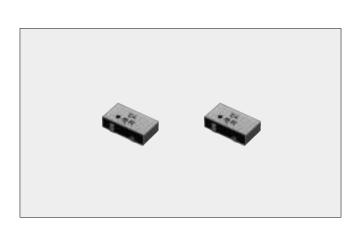
SMD Ceramic Filter for Communications Equipment CFWC455 Series

Chip Ceramic Filter for Automatic Insertion and Reflow Soldering

The CFWC455 series consist of 6 ceramic elements. The filters are recommended for digital communication applications and are perfect in hand held phones.

■FEATURES

- 1. The filters are mountable by automatic placers.
- 2. The filters can be reflow soldered and withstand washing.
- 3. They are slim, at only 3.0mm maximum thickness, and have a small mounting area (11.5×7.5mm) enable flexible PCB design.
- 4. The filters are wide bandwidth, flat G.D.T. within pass band.
- 5. Operating temperature range : -20°C to +80°C Storage temperature range : -40°C to +85°C

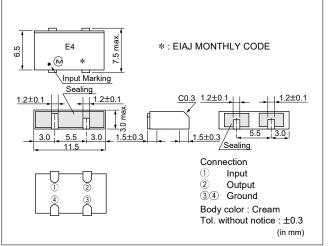


■SPECIFICATIONS

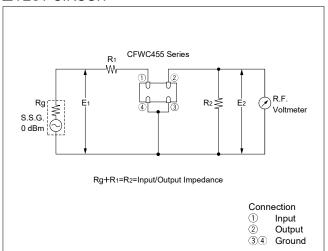
Character- istics Part Number	Nominal Center Frequency(fn) (kHz)	3dB Bandwidth (from fn) (kHz)	50dB Bandwidth (from fn) (kHz)	Stop Band within fn ±18-±33 (dB)	within fn	Spurious Response within 0.1—1.0MHz (dB)	Insertion Loss (at fn) (dB)	Ripple (dB)	Devia	Ripple ation ec.)	Input /Output Impedance (kΩ)
CFWC455E1	455	±6.5min.	±15.0max.	55min.	50min.	20min.	4.0max.	(±6.5) 3.0max.	_	_	1.5
CFWC455E4	455	±6.5min.	±15.5max.	55min.	50min.	20min.	4.0max.	(±6.5) 2.0max.	(±3kHz) 20max.	(±5kHz) 50max.	1.5

Note : For tape and reel packaging, the suffix is "-TC". For example, CFWC455E1-TC.

■DIMENSIONS



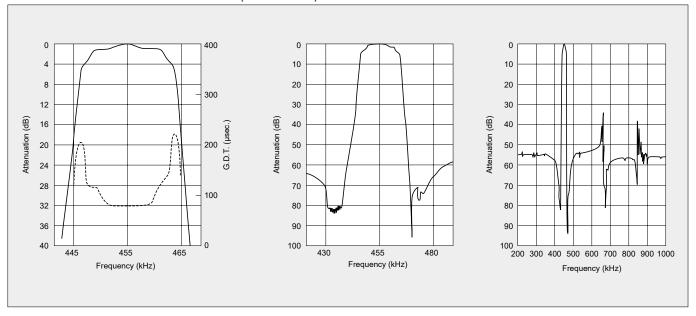
■TEST CIRCUIT



Note: To take best advantage of safety features of ceramic filters, connect B type filter's output to IF amplifier though DC cut capacitor.

Avoid to apply direct current output of B type filter.

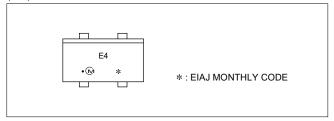
■FREQUENCY CHARACTERISTICS (CFWC455E4)



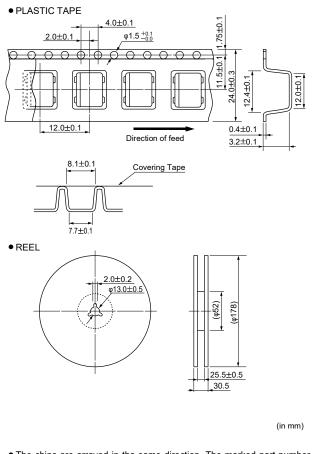
■MARKING

Part Number	Marking				
CFWC455E1	E1				
CFWC455E4	E4				

(Ex.) CFWC455E4



■DIMENSIONS

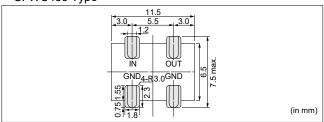


- The chips are arrayed in the same direction. The marked part number is faced on the covering tape side.
- Marking on ceramic filters are observed on the covering tape side.
- Quantity per 1 reel : 350 pcs.
- The label is placed on the side surface of reel. It indicates Murata part number, user's part number, quantity and inspection number.

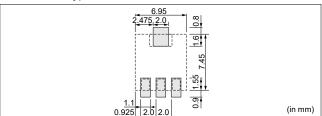
SMD Type Ceramic Filter for Communications Equipment Applications

■STANDARD LAND DIMENSIONS

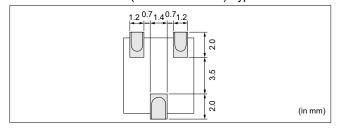
● CFWC455 Type



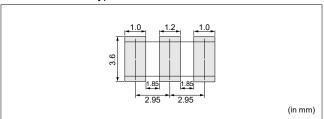
● SFPC455 Type



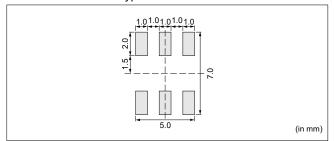
• CFUCG/SFGCG455 (KMFC626 Series) Type



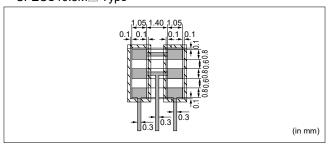
● CFEC10.8M Type



CFUXC450C100H Type



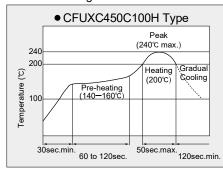
● CFECS10.8M Type

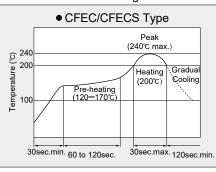


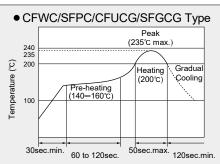
■SOLDERING CONDITIONS

(1) Reflow Soldering

Reflow soldering should be carried out one time with standard soldering conditions below.







(2) Soldering with Iron

Soldering conditions : Soldering iron temperature 350±5℃

(CFECS type : 280±5℃) Soldering time 3±1 seconds.

■CLEANING CONDITIONS

In case of SMD type ceramic filter, washing after reflow soldering shall be allowed only when the components temperature is cooled down to room temperature.

(*Please avoid using ultrasonic cleaning. For washing liquid, please consult with us to avoid possible damage during washing process.)

Please contact us concerning cleaning method before use. For protection of ozone layer, we also investigate the non ODC cleaning process for our devices. For more details, please contact us before use.