

FILTERS FOR AUDIO VISUAL EQUIPMENT

CERAMIC FILTERS (CERAFIL®) FOR AM

CERAFIL® FOR AM

SFU/SFZ Series 450—470kHz

SFU455A/B



Connection
① : Input
② : Ground
③ : Output

SFZ455HL/JL



Connection
① : Input
②⑤ : Ground
③④ : Directly Coupled
⑥ : Output

(in mm)

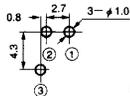
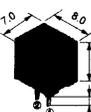
Part Number	3dB Bandwidth (kHz)	Selectivity		Insertion Loss (dB) max.	Composition
		-9kHz off (dB) min.	+9kHz off (dB) min.		
SFU455A	10±3	5(7.5)	3(5.5)	5(3)	1 Element
SFU455B (connected with IFT)	10±3	5(7.5)	3(5.5)	5(3)	1 Element with IFT
SFZ455HL	4.0±1	23(28)		7(4.5)	2 Elements
SFZ455JL	5.5±1	18(20)		7(3.5)	Direct Coupling Type

- Center frequency (fo) is available in a range of 450 to 470kHz. The standard tolerance of fo is ±2kHz. For synthesizers and digital indicators, ±1kHz tolerance is also available.
- The SFZ455HL/JL series, with its two directly coupled elements, has realized a high degree of selectivity. The series features excellent matching characteristics for IFT.
- Recommended IFT (7mm square)

Item	Type	SFU□B			SFZ□HL/JL		
Winding Specifications		①-②	②-③	④-⑥	①-②	②-③	④-⑥
S	(From bottom)	70 T	115 T	7 T	68 T	84 T	14 T
Unloaded Qu		105			90		
Tuning Capacity		180pF			180pF		

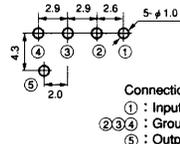
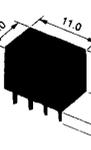
High-Selectivity SFPS/SFR Series

SFPS450H



Connection
① : Input
② : Ground
③ : Output

CFWS450HT



Connection
① : Input
②③④ : Ground
⑤ : Output

(in mm)

Part Number	6dB Bandwidth (kHz)	Selectivity		Insertion Loss (dB) max.	Composition
		-9kHz off (dB) min.	+9kHz off (dB) min.		
SFPS450H	±3.0 min.(±4.0)	40(60)		6(1.5)	4 Elements Ladder Type
CFWS450HT	±3.0 min.(±4.0)	50(75)		6(2.0)	6 Elements Ladder Type

- Types with 450, 459 and 468kHz of center frequency (fo) for synthesizers are available. The standard tolerance is ±1kHz.
- Most suitable for car and shortwave radios because of its high selectivity.
- Narrow band SFPS/CFWS450HT and SFPS/CFWS450K series are also available.
- Note) For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
- Recommended IFT (7mm square)

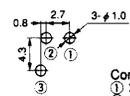
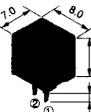
Minimum Quantity (order in sets only) (pcs.)

SFU455A/B	500
SFZ455HL/JL	200
SFPS450H	200
CFWS450HT	100

Item	Type	SFPS/CFWS□H		
Winding Specifications		①-②	②-③	④-⑥
S	(From bottom)	60 T	125 T	28 T
Unloaded Qu		40		
Tuning Capacity		180pF		

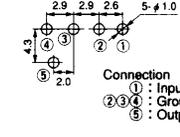
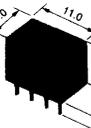
SF□450 Series for AM Stereo

SFPS450G/F/D



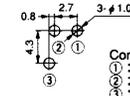
Connection
① : Input
② : Ground
③ : Output

CFWS450G/F/D



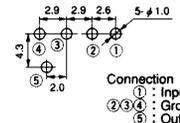
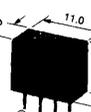
Connection
① : Input
②③④ : Ground
⑤ : Output

SFG450G/F/D



Connection
① : Input
② : Ground
③ : Output

SFH450G/F/D



Connection
① : Input
②③④ : Ground
⑤ : Output

(in mm)

Part Number	6dB Bandwidth (kHz) min.	Selectivity (dB) min.	Insertion Loss (dB) max.	G.D.T. 20 μ sec. Bandwidth(kHz)	Elements
SFPS450G	±4.5(±5.0)	±9kHz off 30(40)	6(2)	—	4 Elements Ladder Type
SFPS450F	±6(±7.5)	±12.5kHz off 40(50)	6(1.5)	—	4 Elements Ladder Type
SFPS450D	±10(±12)	±20kHz off 40(50)	4(1.5)	—	4 Elements Ladder Type
CFWS450G	±4.5(±5.5)	±9kHz off 40(55)	6(2.5)	—	6 Elements Ladder Type
CFWS450F	±6(±7.5)	±12.5kHz off 50(70)	6(2)	—	6 Elements Ladder Type
CFWS450D	±10(±12)	±20kHz off 50(70)	6(2)	—	6 Elements Ladder Type
SFG450G	±4.5(±5.5)	±15kHz off 40(50)	10(7)	(±4.5)	4 Elements Ladder Type
SFG450F	±6(±7.5)	±17.5kHz off 40(50)	9(5.5)	(±6)	4 Elements Ladder Type
SFG450D	±10(±12)	±25kHz off 40(50)	7(4)	(±9)	4 Elements Ladder Type
SFH450G	±4.5(±5.5)	±15kHz off 50(70)	13(8)	(±4)	6 Elements Ladder Type
SFH450F	±6(±7.5)	±17.5kHz off 50(70)	10(6.5)	(±5)	6 Elements Ladder Type
SFH450D	±10(±12)	±25kHz off 50(70)	8(5)	(±8)	6 Elements Ladder Type

- The standard tolerance of center frequency is ±1kHz.
- SFPS450G/F/D series and CFWS450G/F/D series are of the flat-amplitude type.
- SFG450G/F/D series and SFH450G/F/D series are GDT flat characteristic types.
- Various bandwidths of CERAFIL® for AM stereo are also available.
- The specifications of recommended IFT are the same as those of SFPS/CFWS450HT.
- Note) For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters. Recommended IFT (7mm square)

Minimum Quantity (order in sets only) (pcs.)

SFPS450G/F/D	200
CFWS450G/F/D	100
SFG450G/F/D	200
SFH450G/F/D	100

Please see pages 48—52 for use in communication equipment.