

MICROWAVE PRODUCTS FOR COMMUNICATION EQUIPMENT

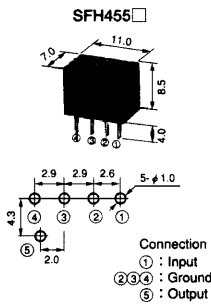
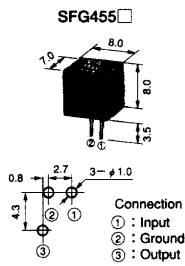
FILTERS FOR COMMUNICATION EQUIPMENT

CERAMIC FILTERS (CERAFIL)

Plastic Case Type 455kHz

(For digital communications equipment of group delay flat type)

General Use



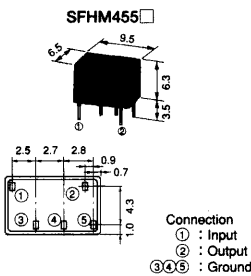
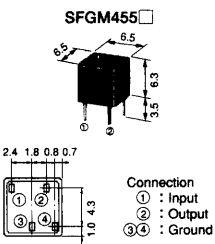
Part Number		6dB Bandwidth (kHz) min.	Att. Bandwidth (kHz) max.	Stop Band Att. (dB) min.		Insertion Loss (dB) max.		Input/Output Impedance (Ω)
SFG	SFH			SFG	SFH	SFG	SFH	
SFG455B	SFH455B	±15	±35	25	35	5	6	1500
SFG455C	SFH455C	±12.5	±30	25	35	6	7	1500
SFG455D	SFH455D	±10	±25	23	35	7	8	1500
SFG455E	SFH455E	±7.5	±20	23	35	8	9	1500
SFG455F	SFH455F	±6	±17.5	23	35	9	10	2000
SFG455G	SFH455G	±4.5	±15	20	35	10	13	2000

• Stop band attenuation is specified within 455±100kHz (SFG455B/C: within±80kHz.)

• Attenuation bandwidth is specified with respect to 40 dB for SFG and 50 dB for SFH.

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.

Miniaturized Type



Part Number		6dB Bandwidth (kHz) min.	Att. Bandwidth (kHz) max.	Stop Band Att. (dB) min.		Insertion Loss (dB) max.		Input/Output Impedance (Ω)
SFGM	SFHM			SFGM	SFHM	SFGM	SFHM	
SFGM455B	SFHM455B	±15	±35	25	35	5	6	1500
SFGM455C	SFHM455C	±12.5	±30	25	35	6	7	1500
SFGM455D	SFHM455D	±10	±25	23	35	7	8	1500
SFGM455E	SFHM455E	±7.5	±20	23	35	8	9	1500
SFGM455F	SFHM455F	±6	±17.5	23	35	9	10	2000
SFGM455G	SFHM455G	±4.5	±15	20	35	10	13	2000

• SFGM455 is a miniaturized four-element version of the conventional SFG455.

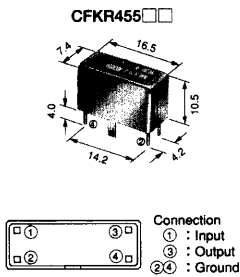
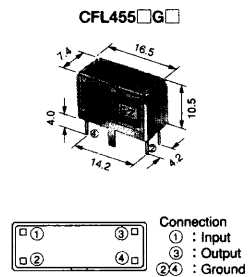
• SFHM455 is a miniaturized six-element version of the conventional SFH455.

• Can also be used as 2nd IF filters for car telephones.

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.

Metal Case Type 455kHz

(For digital communications equipment of group delay flat type)



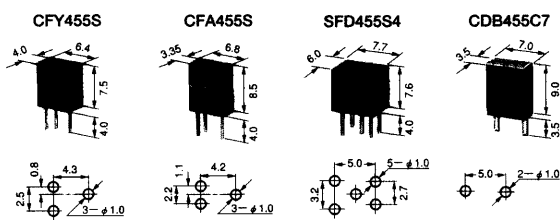
Part Number	6dB Bandwidth (kHz) min.	60dB Bandwidth (kHz) max.	Stop Band Att. (455±100kHz) (dB) min.	Insertion Loss (dB) max.	G.D.T. Ripple Deviation (μ sec.) max.	Input/Output Impedance (Ω)
CFL455AG2	±17.5 to ±19.5	48dB min. at (±29kHz)	65 at (±40kHz)	7.5	40 (±15kHz)	1000
CFL455BG5	±13.5	±27.5	60	10	25 (±10.5kHz)	1000
CFL455CG1	±12	±25.5	60	10	35 (±9.5kHz)	1000
CFL455DG2	±9	±21	60	11	35 (±7kHz)	1000
CFL455EG1	±7	±18	60	13	30 (±5kHz)	1500
CFKR455G1	±4	±11.5	70	6	35 (±4kHz)	1500
CFKR455H3	±3.5	±11.2	60	6	25 (±3.5kHz)	1500

• Can also be used as 2nd IF filters for car telephones.

• CFKR455 type is low-loss group-delay type.

Communication Use Ceramic Discriminators 455kHz

General Series

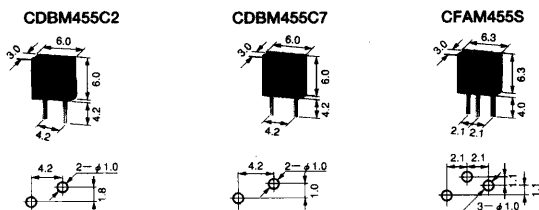


Part Number	Center Frequency (kHz)	Peak Separation (kHz) min.	Voltage Sensitivity* (mV/kHz)
CFY455S	455±1	15(17)	15±3min.
CFA455S	455±1	20(22)	13min.
CFAM455S	455±1	18(20)	12.5min.
SFD455S4	455±2	28(32)	9.5min.
CDB455C7	—	Recovered Audio 3dB Band Width±4.0kHz min.	Recovered Audio Volt. 340±60mV
CDBM455C7	—	447±1.5kHz (Z =2.05kΩ)	463±1.5kHz (Z =10kΩ)

• Center Frequency: Specified at 0 V DC point.
 • CDB455C7 is a discriminator for MOTOROLA IC: MC3357
 • CDBM455C2 is a discriminator for TOSHIBA IC: TA8104F

* Voltage sensitivity: 450—460kHz

Ultra-small Series



SMD Type



Part Number	Recovered Audio 3dB Bandwidth (from 455kHz) (kHz)	Recovered Audio Output (at 455kHz) (mV)	Distortion (at 455kHz) (%)	IC
CDBC455CX16	±4.0 min.	175±40	2.0 max.	MC3372
CDBC455CX24	±4.0 min.	100±40	2.0 max.	TA31136
CDBC455CX9	±4.0 min.	120±40	1.5 max.	NE604

• Please feel free to ask us on other IC. We will arrange the discriminator.

EMI SUPPRESSION FILTERS (EMIFIL®)

MICROWAVE FILTERS

FILTERS

VIDEO EQUIPMENT

FUNCTIONAL MODULES HYBRID ICs

POWER SUPPLIES

SENSORS

CAPACITORS

THERMISTORS /RESISTORS

COILS/DELAY LINES /FERRITE CORES

RESONATORS

PIEZO PRODUCTS