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SAW Filters for Cellular Telephone (For RF-Stage)

EFCH□□□MM□□□

SAW Filter for Cellular Telephone which incorporates highly-precise interdigited electrodes achieves low insertion loss, high selectivity. Thus the filter has wide applications to bandpass filtering circuits for cellular telephones and portable wireless equipment.

■ Features

- Stable against severe conditions of vibration and shock thanks to the unique monolithic construction of the filter
- Low insertion loss and excellent selectivity
- Contributes to circuit simplification and adjustment free
- Saves the hight on PC board

■ Recommended Applications

- The RF-stage band-pass filter for cellular telephone or portable wireless equipment

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	F	C	H				M	M			1

Design No.

Product Code	
EFC	Filters

Type	
H	SAW

Nominal Frequency	
881 M	881 MHz

(Example)

Application	
M	For cellular telephone

Material	
T	$LiTaO_3$
N	$LiNbO_3$

Package/Terminals	
Y	Chip Type

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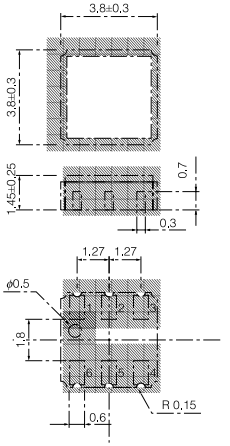
■ Ratings and Characteristics

Item / Part No.	System	Nominal Center Frequency (f_0)	Insertion Loss (Typ.)	Pass-band Width	VSWR (Typ.)
EFCH836MMNY3	AMPS	836.5 MHz	4.0 dB	25 MHz	1.5
EFCH836MMTE1	AMPS	836.5 MHz	2.5 dB	25 MHz	1.7
EFCH836MMTY4	AMPS	836.5 MHz	2.0 dB	25 MHz	2.0
EFCH881MMNY3	AMPS	881.5 MHz	3.5 dB	25 MHz	1.5
EFCH881MMTE2	AMPS	881.5 MHz	2.0 dB	25 MHz	1.7
EFCH881MMTY6	AMPS	881.5 MHz	2.0 dB	25 MHz	1.8
EFCH888MMTY4	E-TACS	888.5 MHz	3.0 dB	33 MHz	3.0
EFCH933MMTY5	E-TACS	933.5 MHz	2.5 dB	33 MHz	2.7
EFCH856MMTY5	N-TACS	856.5 MHz	2.5 dB	27 MHz	2.0
EFCH856MMTY3	N-TACS	856.5 MHz	4.0 dB	27 MHz	2.8
EFCH911MMTY2	N-TACS	911.5 MHz	2.5 dB	27 MHz	2.0
EFCH911MMNY1	N-TACS	911.5 MHz	4.0 dB	27 MHz	1.5
EFCH872MMTY2	NTT	872.5 MHz	4.0 dB	15 MHz	2.7
EFCH927MMTY2	NTT	927.5 MHz	2.5 dB	25 MHz	2.0
EFCH902MMTY1	GSM	902.5 MHz	2.5 dB	25 MHz	1.9
EFCH902MMTE1	GSM	902.5 MHz	2.0 dB	25 MHz	1.7
EFCH947MMTY1	GSM	947.5 MHz	2.5 dB	25 MHz	1.9
EFCH947MMTE2	GSM	947.5 MHz	1.8 dB	25 MHz	1.7
EFCH820MMNY7	PDC	820 MHz	3.4 dB	20 MHz	1.5
EFCH950MMNE1	PDC	950 MHz	3.0 dB	20 MHz	1.5
EFCH942MMNE5	PDC	942.5 MHz	3.0 dB	35 MHz	2.5
EFCH1441MTY1	PDC	1441 MHz	2.0 dB	24 MHz	1.6

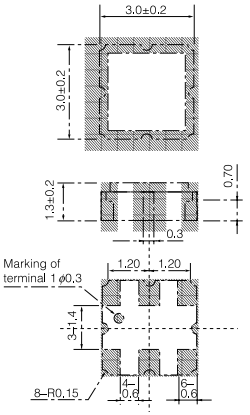
■ Dimensions in mm (not to scale)

EFCH□□□MM□Y□



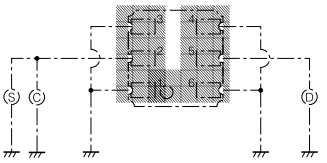
Terminal
(1) GND
(2) Input/Output
(3) GND
(4) GND
(5) Output/Input
(6) GND

EFCH□□□MM□E□



Terminal
(1)GND
(2)Input/Output
(3)GND
(4)GND
(5)Output/Input
(6)GND

■ Test Circuits Diagram



S : Standard Signal Generator
(Output Impedance 50 W)
C : Frequency Counter
D : Detecter
(Input Impedance 50 W)

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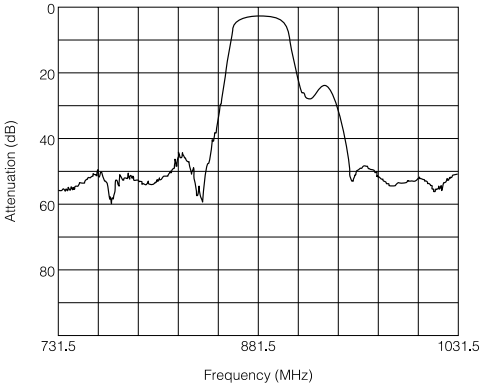
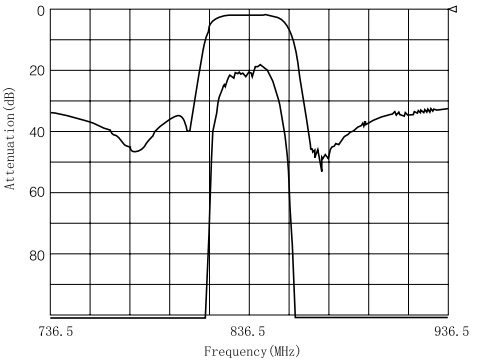
■ Typical Characteristics

Attenuation vs. Frequency

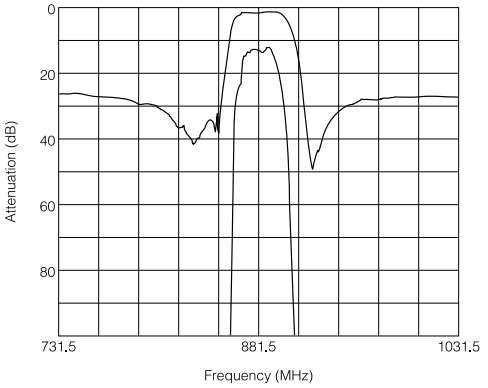
EFCH881MMNY3



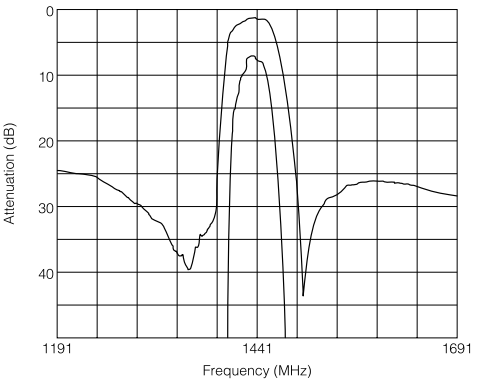
EFCH836MMTE1



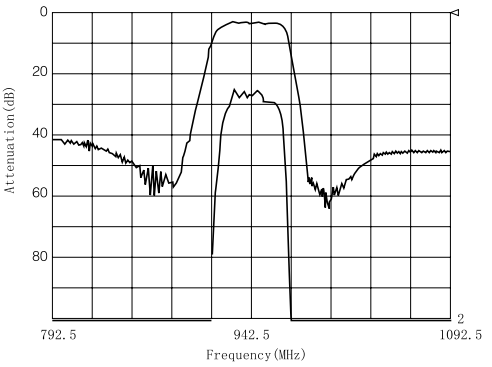
EFCH881MMTY6



EFCH1441MTY1



EFCH942MMTE5



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