



SAW Components

Data Sheet B7703, Pb-Free





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B7703

Low-Loss Filter for Mobile Communication

836,5 MHz

Data Sheet



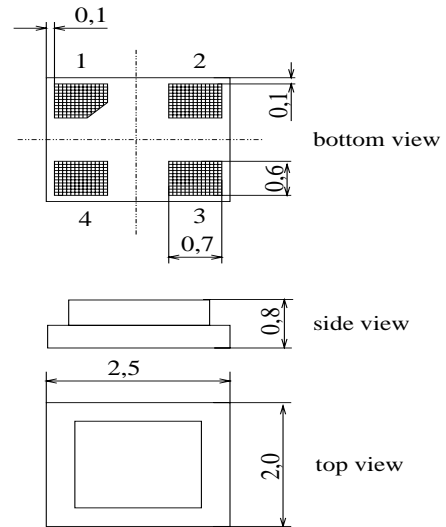
Chip Sized SAW Package DCS4H

Features

- Low-loss RF filter for mobile telephone AMPS systems, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Package for Surface Mounted Technology (SMT)
- Pb-Free

Terminals

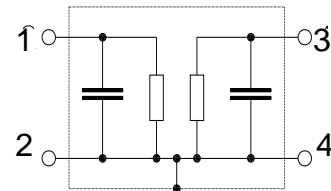
- Gold-plated Ni



Dimensions in mm, approx. weight 0,015 g

Pin configuration

- | | |
|------|--------|
| 1 | Input |
| 3 | Output |
| 2, 4 | Ground |



Type	Ordering code	Marking and Package according to	Packing according to
B7703	B39841-B7703-K710	C61157-A7-A136	F61074-V8189-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 30/+ 85	°C	Machine Model, 10 pulses source impedance 50 Ω
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	5	V	
ESD	V_{ESD}	100*	V	
Input Power max.	P_{IN}	15	dBm	

* acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



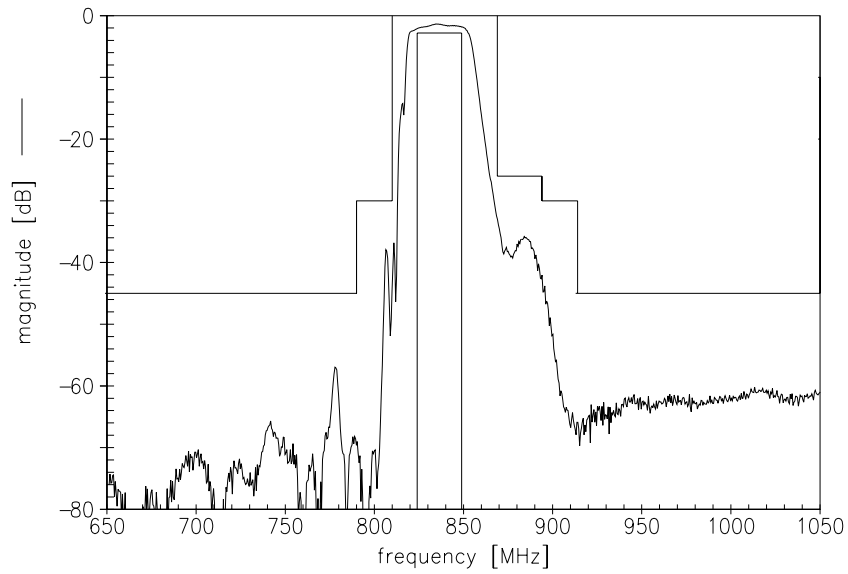
Characteristics

Operating temperature range: $T = -30$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

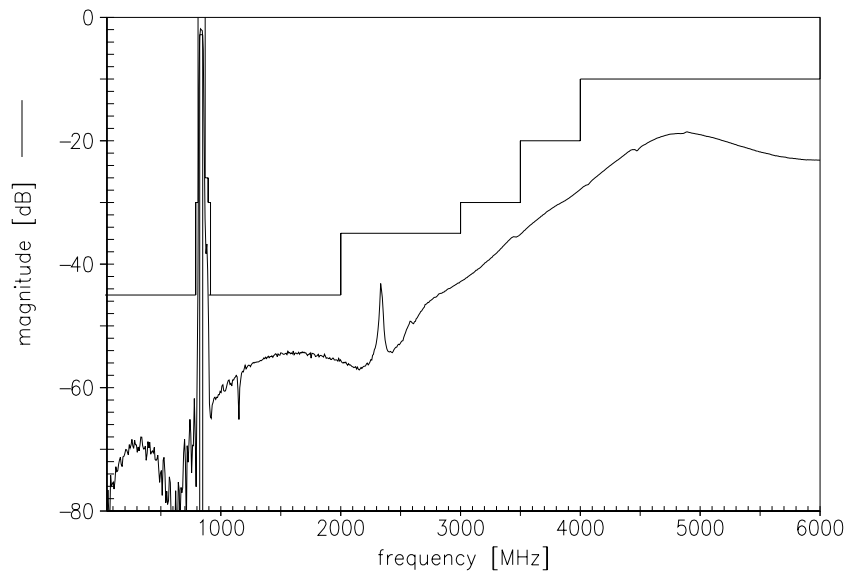
			min.	typ.	max.	
Center frequency	f_C		—	836,5	—	MHz
Maximum insertion attenuation	α_{max}	824,0 ... 849,0 MHz	—	2,5	2,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$	824,0 ... 849,0 MHz	—	0,9	1,3	dB
Return loss		824,0 ... 849,0 MHz	—	12,0	10,0	dB
Attenuation	α	0,0 ... 790,0 MHz	45,0	56,0	—	dB
		790,0 ... 810,0 MHz	30,0	35,0	—	dB
		869,0 ... 894,0 MHz	26,0	29,0	—	dB
		894,0 ... 914,0 MHz	30,0	40,0	—	dB
		914,0 ... 2000,0 MHz	45,0	50,0	—	dB
		2000,0 ... 3000,0 MHz	35,0	40,0	—	dB
		3000,0 ... 3500,0 MHz	30,0	35,0	—	dB
		3500,0 ... 4000,0 MHz	20,0	25,0	—	dB
		4000,0 ... 6000,0 MHz	10,0	18,0	—	dB
Rx band suppression	α	869,0 ... 894,0 MHz	26,0	29,0	—	dB



Transfer function

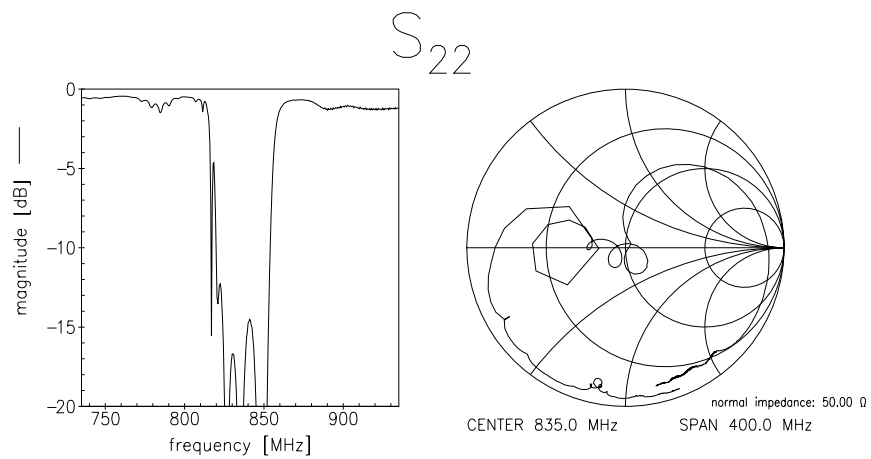
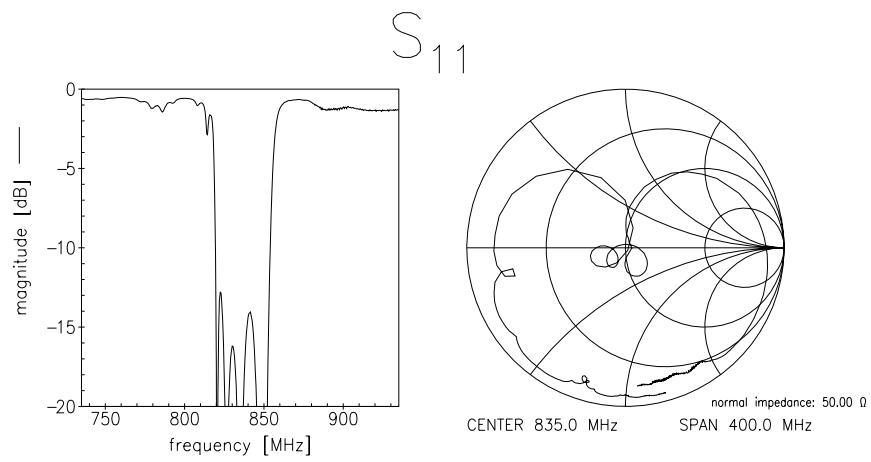


Transfer function (wideband)





Reflection functions





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