



SAW Components

Data Sheet B7777

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns, suggesting a global network or technological theme. The overall color scheme is dark with blue and white highlights.



SAW Components

B7777

Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



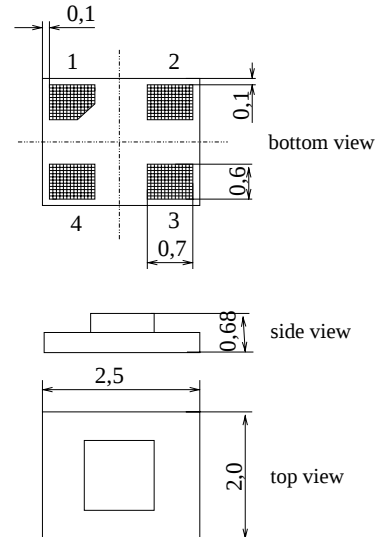
Features

- Low-loss RF filter for W-CDMA mobile telephone system, transmit path
- High stopband attenuation
- Usable passband 60 MHz
- Unbalanced/unbalanced operation
- Package size: 2 mm x 2.5 mm (4 pin, diagonal pinning)

Terminals

- Ni, gold-plated Data Sheet

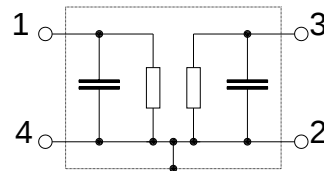
Chip sized SAW package



Dimensions in mm, approx weight 0,012g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B7777	B39202-B7777-C810	C61157-A7-A118	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20 / + 85	°C	source impedance 50 Ω
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	3	V	
Source power	P_s	10	dBm	



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Characteristics

Operating temperature range: $T = +25\text{ °C} \pm 2\text{ °C}$

Terminating source impedance: $Z_S = 50\ \Omega$

Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
	1920,0 ... 1980,0 MHz	—	2,2	2,5	dB
Ripple	p-p				
	1920,0 ... 1980,0 MHz	—	1,0	1,2	dB
Input VSWR					
	1920,0 ... 1980,0 MHz	—	1,9	2,1	
Output VSWR					
	1920,0 ... 1980,0 MHz	—	1,9	2,1	
Attenuation	α				
	0,0 ... 1670,0 MHz	26	28	—	dB
	1670,0 ... 1720,0 MHz	29	31	—	dB
	1720,0 ... 1750,0 MHz	30	32	—	dB
	1750,0 ... 1880,0 MHz	31	33	—	dB
	2025,0 ... 2050,0 MHz	35	45	—	dB
	2110,0 ... 2170,0 MHz	34	36	—	dB
	2300,0 ... 2490,0 MHz	34	36	—	dB
	2490,0 ... 2740,0 MHz	35	38	—	dB
	2740,0 ... 3960,0 MHz	30	33	—	dB
	3960,0 ... 6000,0 MHz	15	21	—	dB



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Characteristics

Operating temperature range: $T = -20$ to $+85$ °C
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
	1920,0 ... 1980,0 MHz	—	2,4	2,8	dB
Ripple	p-p				
	1920,0 ... 1980,0 MHz	—	1,0	1,6	dB
Input VSWR					
	1920,0 ... 1980,0 MHz	—	2,0	2,2	
Output VSWR					
	1920,0 ... 1980,0 MHz	—	2,0	2,2	
Attenuation	α				
	0,0 ... 1670,0 MHz	26	28	—	dB
	1670,0 ... 1720,0 MHz	29	31	—	dB
	1720,0 ... 1750,0 MHz	30	32	—	dB
	1750,0 ... 1880,0 MHz	31	33	—	dB
	2025,0 ... 2050,0 MHz	35	45	—	dB
	2110,0 ... 2170,0 MHz	34	36	—	dB
	2300,0 ... 2490,0 MHz	34	36	—	dB
	2490,0 ... 2740,0 MHz	35	38	—	dB
	2740,0 ... 3960,0 MHz	30	33	—	dB
	3960,0 ... 6000,0 MHz	15	21	—	dB



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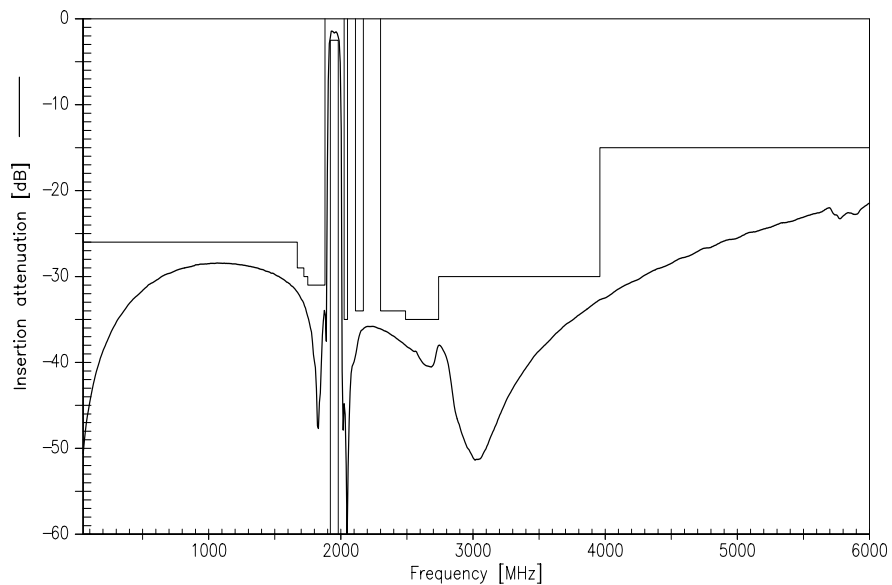
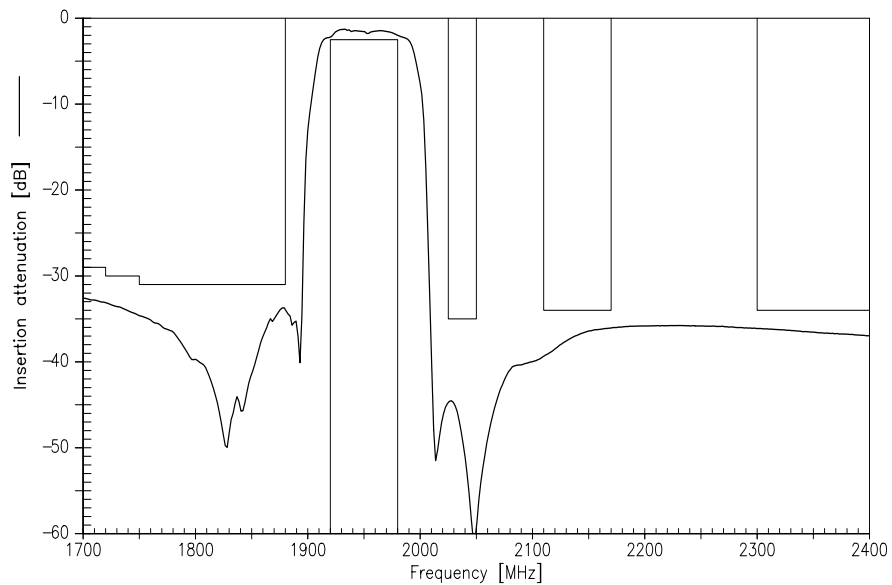
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Transfer function (spec for $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$):





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