



SAW Components

Preliminary Data Sheet B7747

Data Sheet

A large, stylized graphic of a globe with the word "EPCOS" written across it in a large, white, sans-serif font. The globe is rendered in shades of gray and white, with the word "EPCOS" appearing to be superimposed on the globe's surface.



SAW Components

B7747

Low-Loss Filter for Mobile Communication

1880,0 MHz

Preliminary Data Sheet



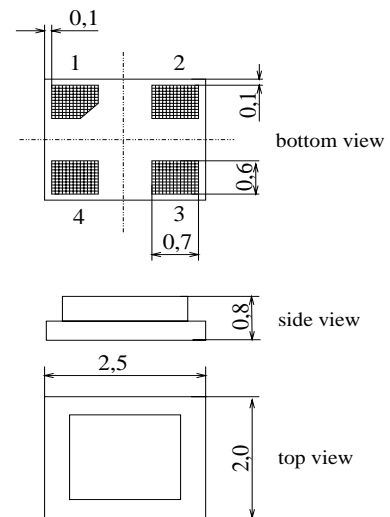
Chip Sized SAW Package DCS4D

Features

- Low-loss RF filter for mobile telephone PCS systems, transmit path
- High selectivity
- Usable passband 60 MHz
- Unbalanced to unbalanced operation
- No external matching required
- Package for **Surface Mounted Technology (SMT)**

Terminals

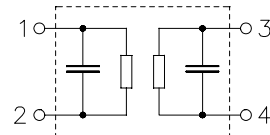
- Gold-plated Ni



Dimensions in mm, approx. weight 0,027g

Pin configuration

- 1 Input
- 3 Output
- 2, 4 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7747	B39192-B7747-C810	C61157-A7-A89	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 30 /+ 85	°C	
Storage temperature range	T_{stg}	- 40 /+ 85	°C	
DC voltage	V_{DC}	3	V	
Input Power max.	P_{IN}	15	dBm	source impedance 50 Ω



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Characteristics

Operating Temperature Range: $T = 25^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1880,0	—	MHz
Maximum insertion attenuation	α_{\max}				
	1850,0 ... 1910,0 MHz	—	2,9	3,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	1850,0 ... 1910,0 MHz	—	1,5	2,5	dB
Input VSWR					
	1850,0 ... 1910,0 MHz	—	1,8	2,1	
Output VSWR					
	1850,0 ... 1910,0 MHz	—	1,8	2,1	
Attenuation	α				
	0,0 ... 1720,0 MHz	25,0	28,0	—	dB
	1930,0 ... 1935,0 MHz	22,0	25,0	—	dB
	1935,0 ... 1990,0 MHz	26,0	29,0	—	dB
	2032,0 ... 2092,0 MHz	34,0	36,0	—	dB
	2150,0 ... 2340,0 MHz	34,0	36,0	—	dB
	2340,0 ... 5000,0 MHz	20,0	26,0	—	dB



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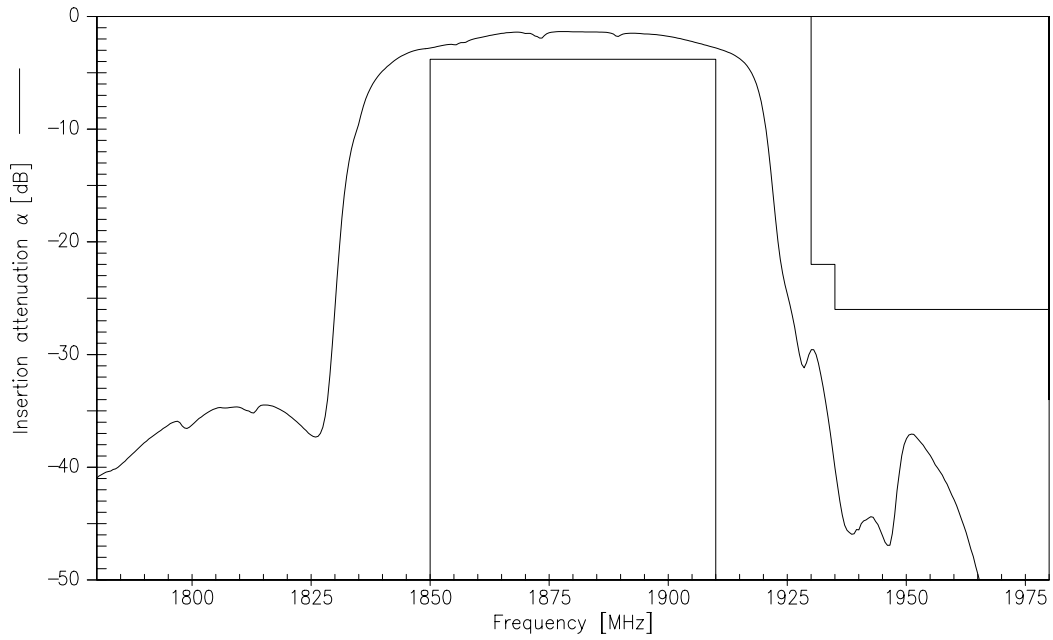
Characteristics

Operating Temperature Range: $T = -30$ to $+85^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

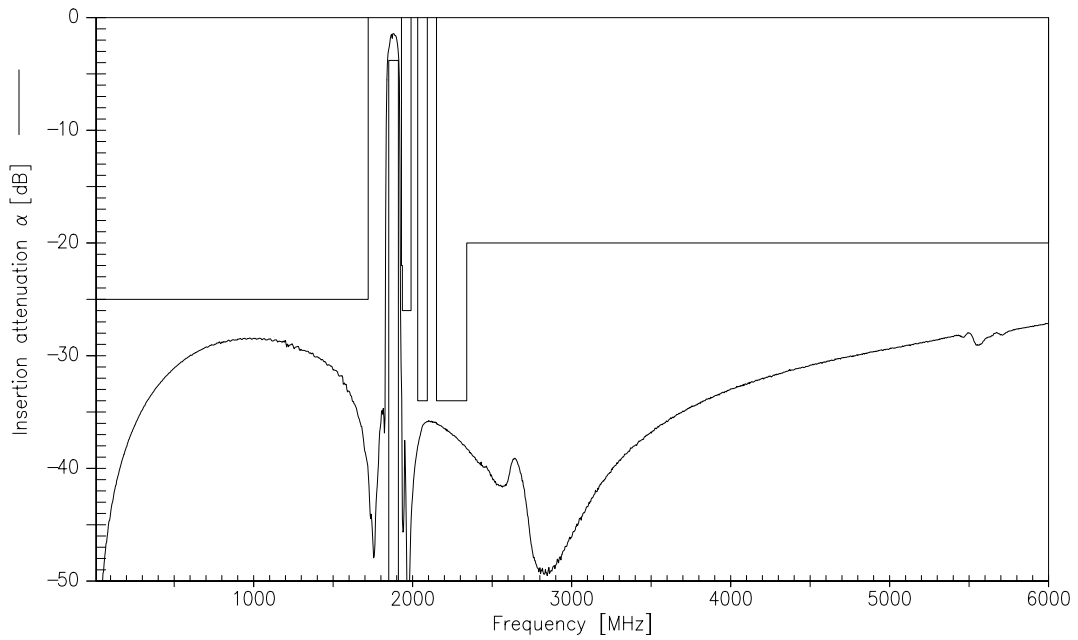
		min.	typ.	max.	
Center frequency	f_C	—	1880,0	—	MHz
Maximum insertion attenuation	α_{\max}				
	1850,0 ... 1910,0 MHz	—	2,9	4,7	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	1850,0 ... 1910,0 MHz	—	1,5	3,4	dB
Input VSWR					
	1850,0 ... 1910,0 MHz	—	1,8	2,1	
Output VSWR					
	1850,0 ... 1910,0 MHz	—	1,8	2,1	
Attenuation	α				
	0,0 ... 1720,0 MHz	25,0	28,0	—	dB
	1930,0 ... 1935,0 MHz	18,0	25,0	—	dB
	1935,0 ... 1990,0 MHz	26,0	29,0	—	dB
	2032,0 ... 2092,0 MHz	34,0	36,0	—	dB
	2150,0 ... 2340,0 MHz	34,0	36,0	—	dB
	2340,0 ... 5000,0 MHz	20,0	26,0	—	dB



Transfer function (measurement)

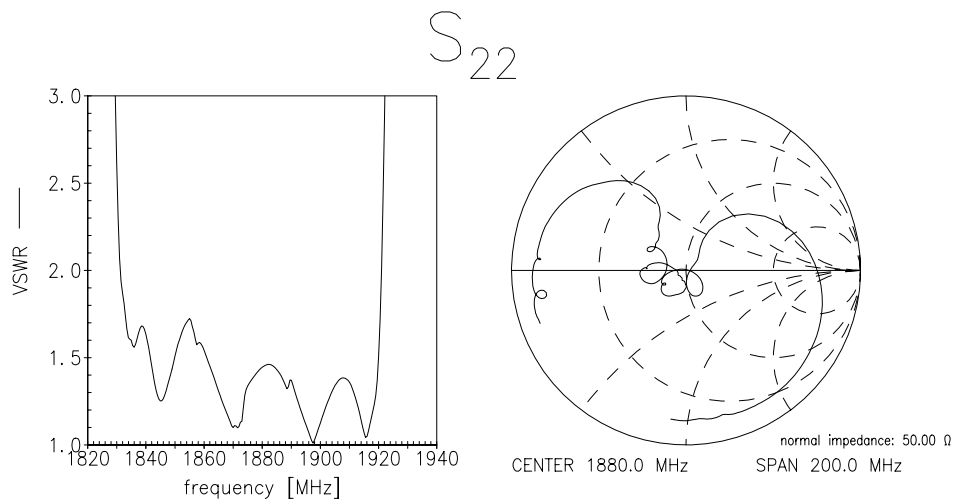
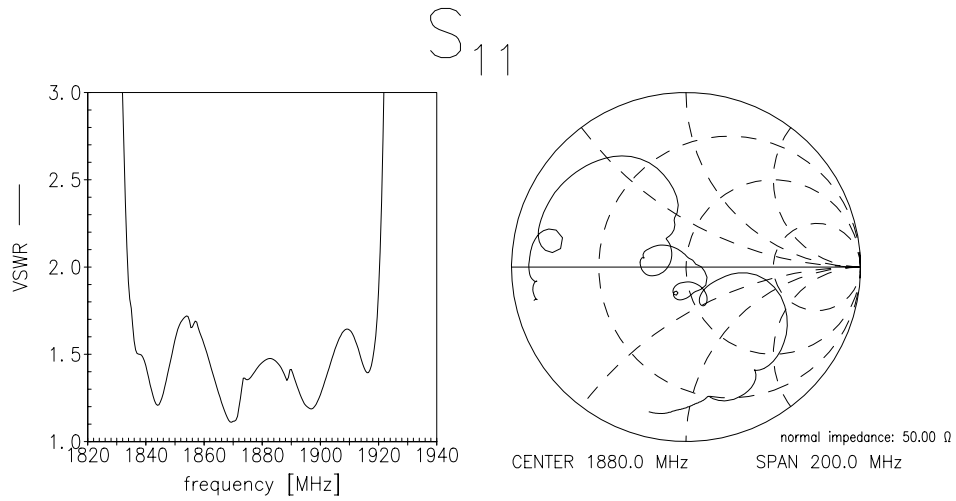


Transfer function (wideband measurement)





Matching (measurement)





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