



SAW Components

Data Sheet B7745

Data Sheet

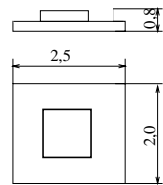
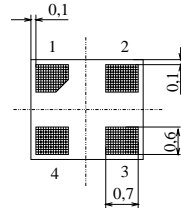
A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, white, sans-serif font, appearing to be part of a curved, metallic-looking structure. The background is dark and features a faint, glowing map of the world.

Chip Sized SAW Package DCS4D
Features

- RF filter for mobile telephone UMTS systems, transmit path
- Low insertion loss, low amplitude ripple
- Usable passband 60 MHz
- Package for Surface Mounted Technology (SMT)

Terminals

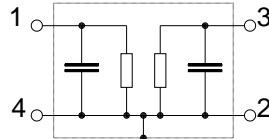
- Gold-plated Ni



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
B7745		C61157-A7-A89	F61074-V8125-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operating temperature range	T	- 20/ +85	°C	
Storage temperature range	T_{stg}	- 40/ +85	°C	
DC voltage	V_{DC}	3	V	
Input Power max.	P_{IN}	8	dBm	

Data Sheet

Characteristics

Operating temperature range : $T = 25\text{ }^{\circ}\text{C}$
 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			α_{\max}				
	1920,0...	1980,0	MHz	—	2,4	2,6	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	1920,0...	1980,0	MHz	—	1,0	1,2	dB
Absolute attenuation			α				
	DC..	1000,0	MHz	36	40	—	dB
	1000,0..	1600,0	MHz	35	38	—	dB
	1705,0..	1715,0	MHz	30	34	—	dB
	1805,0..	1880,0	MHz	23	27	—	dB
	2110,0...	2170,0	MHz	28	31	—	dB
	2300,0...	2360,0	MHz	31	34	—	dB
	2490,0...	2550,0	MHz	33	37	—	dB
	2680,0...	2740,0	MHz	35	40	—	dB
	3060,0...	3120,0	MHz	31	35	—	dB
	3840,0...	3960,0	MHz	27	33	—	dB
	4000,0...	6000,0	MHz	20	27	—	dB
Input VSWR							
	1920,0...	1980,0	MHz	—	1,6	1,8	
Output VSWR							
	1920,0...	1980,0	MHz	—	1,8	2,0	

Data Sheet

Characteristics

Operating temperature range : $T = -20$ to $+75$ °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			α_{\max}	—	2,4	2,8	dB
	1920,0...	1980,0	MHz				
Amplitude ripple (p-p)			$\Delta\alpha$	—	1,0	1,4	dB
	1920,0...	1980,0	MHz				
Absolute attenuation			α				
	DC..	1000,0	MHz	36	40	—	dB
	1000,0..	1600,0	MHz	35	38	—	dB
	1705,0..	1715,0	MHz	30	34	—	dB
	1805,0..	1880,0	MHz	22	26	—	dB
	2110,0...	2170,0	MHz	28	31	—	dB
	2300,0...	2360,0	MHz	31	34	—	dB
	2490,0...	2550,0	MHz	33	37	—	dB
	2680,0...	2740,0	MHz	35	40	—	dB
	3060,0...	3120,0	MHz	31	35	—	dB
	3840,0...	3960,0	MHz	27	33	—	dB
	4000,0...	6000,0	MHz	20	27	—	dB
Input VSWR				—	1,7	2,0	
	1920,0...	1980,0	MHz				
Output VSWR				—	1,9	2,2	
	1920,0...	1980,0	MHz				

Data Sheet

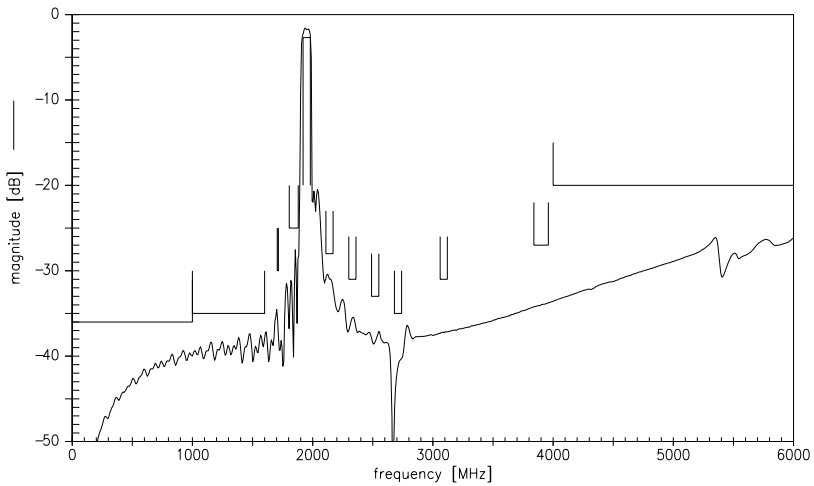
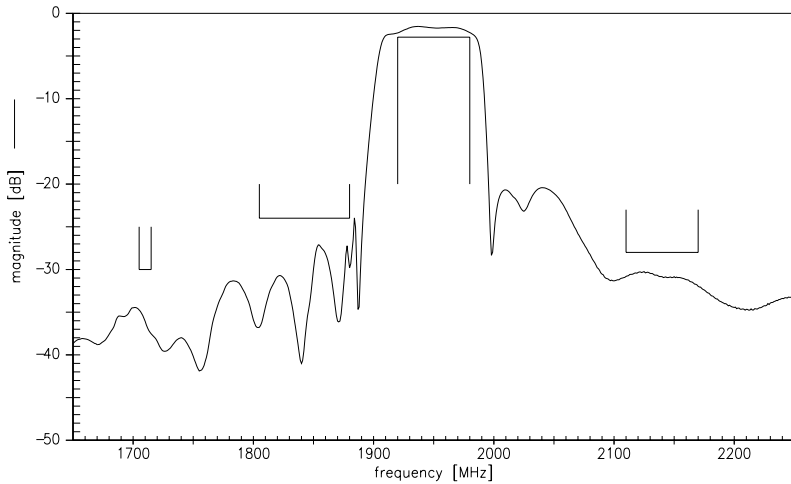
Characteristics

Operating temperature range : $T = -10$ 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			α_{\max}				
	1920,0...	1980,0	MHz	—	2,5	2,9	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	1920,0...	1980,0	MHz	—	1,1	1,5	dB
Absolute attenuation			α				
	DC..	1000,0	MHz	36	40	—	dB
	1000,0..	1600,0	MHz	35	38	—	dB
	1705,0..	1715,0	MHz	30	34	—	dB
	1805,0..	1880,0	MHz	22	26	—	dB
	2110,0...	2170,0	MHz	28	31	—	dB
	2300,0...	2360,0	MHz	31	34	—	dB
	2490,0...	2550,0	MHz	33	37	—	dB
	2680,0...	2740,0	MHz	35	40	—	dB
	3060,0...	3120,0	MHz	31	35	—	dB
	3840,0...	3960,0	MHz	27	33	—	dB
	4000,0...	6000,0	MHz	20	27	—	dB
Input VSWR							
	1920,0...	1980,0	MHz	—	1,7	2,0	
Output VSWR							
	1920,0...	1980,0	MHz	—	2,0	2,2	



Transfer function (spec. for 25°C)





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