



SAW Components

Data Sheet B4138

Data Sheet

An abstract, grayscale background graphic featuring a globe with a grid pattern. Overlaid on the globe is the word "EPCOS" in a large, white, sans-serif font, which is slightly tilted and appears to be part of a larger, repeating pattern.

EPCOS

Data Sheet



Characteristics

Operating temperature range: $T = 25 \pm 2 \text{ }^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \text{ } \Omega$

Terminating load impedance: $Z_L = 50 \text{ } \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1880,0	—	MHz
Maximum insertion attenuation	α_{\max}					
1850,0 ... 1910,0 MHz			—	3,3	3,9	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1850,0 ... 1910,0 MHz			—	1,7	2,5	dB
Input VSWR						
1850,0 ... 1910,0 MHz			—	2,0	2,2	
Output VSWR						
1850,0 ... 1910,0 MHz			—	2,1	2,3	
Attenuation	α					
10,0 ... 1550,0 MHz			20,0	22,0	—	dB
1550,0 ... 1780,0 MHz			25,0	28,0	—	dB
1930,0 ... 1935,0 MHz			12,0	22,0	—	dB
1935,0 ... 1990,0 MHz			20,0	26,0	—	dB
2065,0 ... 2150,0 MHz			25,0	28,0	—	dB
2150,0 ... 2500,0 MHz			26,0	29,0	—	dB
2500,0 ... 5000,0 MHz			15,0	17,0	—	dB

Data Sheet



Characteristics

Operating temperature range: $T = -30 \text{ to } 80 \text{ }^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$

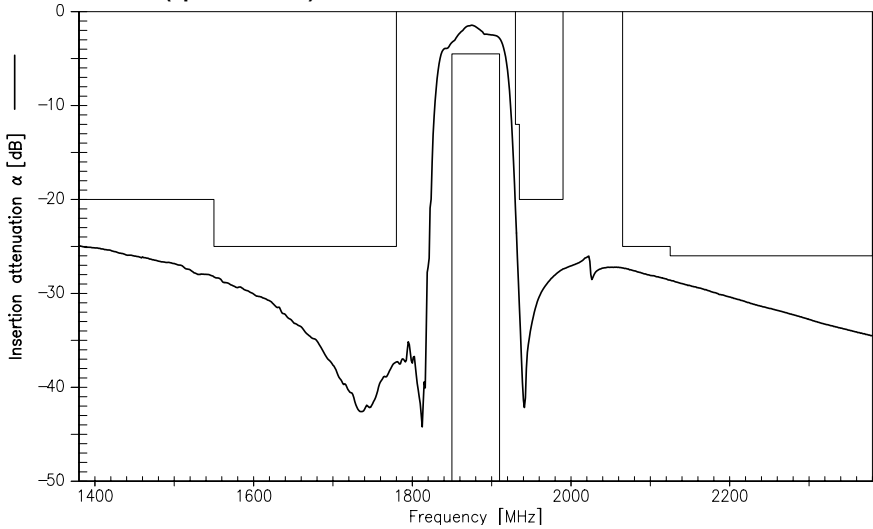
Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1880,0	—	MHz
Maximum insertion attenuation	α_{\max}					
1850,0 ... 1910,0 MHz			—	3,3	4,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1850,0 ... 1910,0 MHz			—	1,8	3,0	dB
Input VSWR						
1850,0 ... 1910,0 MHz			—	2,0	2,2	
Output VSWR						
1850,0 ... 1910,0 MHz			—	2,1	2,3	
Attenuation	α					
10,0 ... 1550,0 MHz			20,0	22,0	—	dB
1550,0 ... 1780,0 MHz			25,0	28,0	—	dB
1930,0 ... 1935,0 MHz			8,5	22,0	—	dB
1935,0 ... 1990,0 MHz			14,0	26,0	—	dB
2065,0 ... 2150,0 MHz			25,0	28,0	—	dB
2150,0 ... 2500,0 MHz			26,0	29,0	—	dB
2500,0 ... 5000,0 MHz			15,0	17,0	—	dB

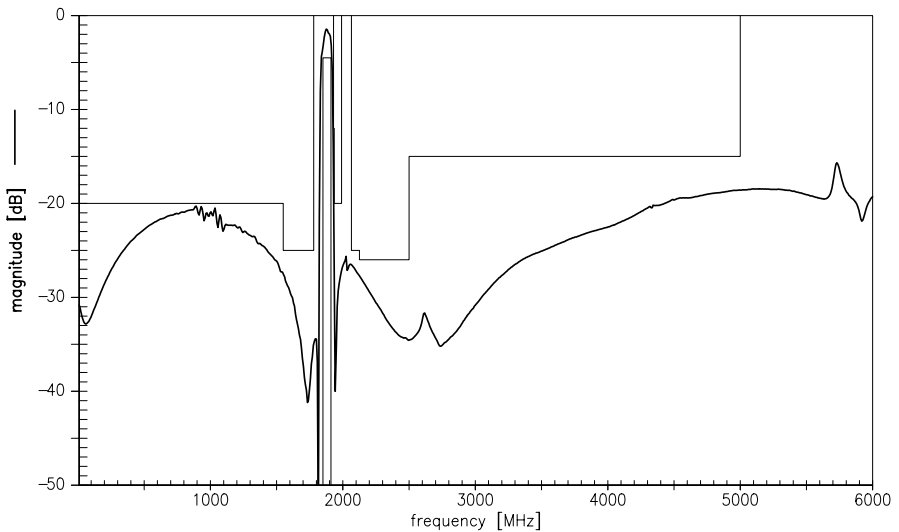
Data Sheet



Transfer function (spec for 25°C)

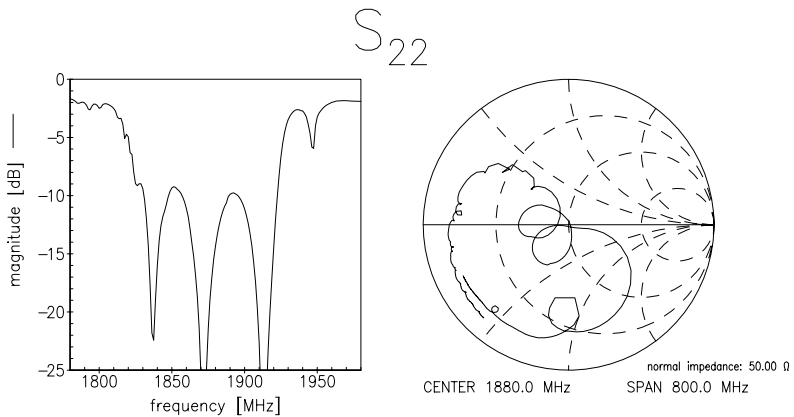
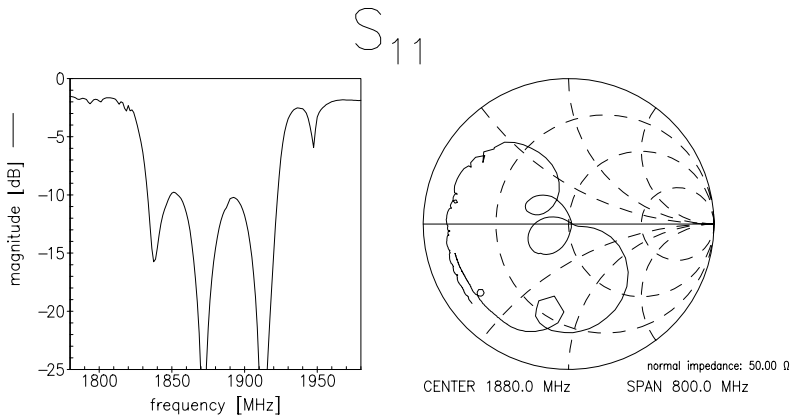


Transfer function (wideband)





Reflection functions



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