EPCOS

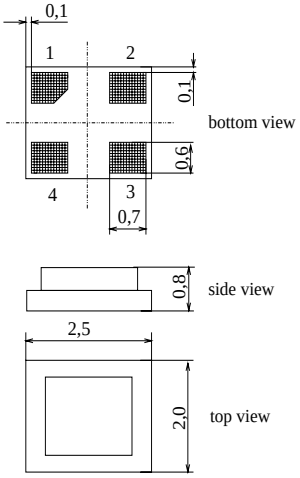
SAW Components

Data Sheet B7737

Chip sized SAW package DCS4C

Features

- Low-loss RF filter for iDEN
- Low amplitude ripple
- Usable passband 26 MHz
- No matching network required for operation at 50 Ω
- Package for **S**urface **M**ounted **T**echnology (**SMT**)



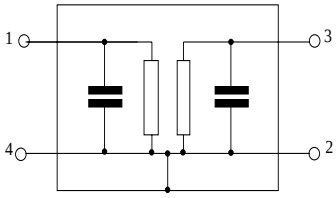
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,015g

Pin configuration

1	Input
3	Output
2,4	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7737	B39921-B7737-C510	C61157-A7-A80	F61074-V8111-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 30 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	0	V	
Source power (cw)	P_S	0	dBm	source and load impedance 50 Ω

Characteristics

Operating temperature range: T = 25 ± 2 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

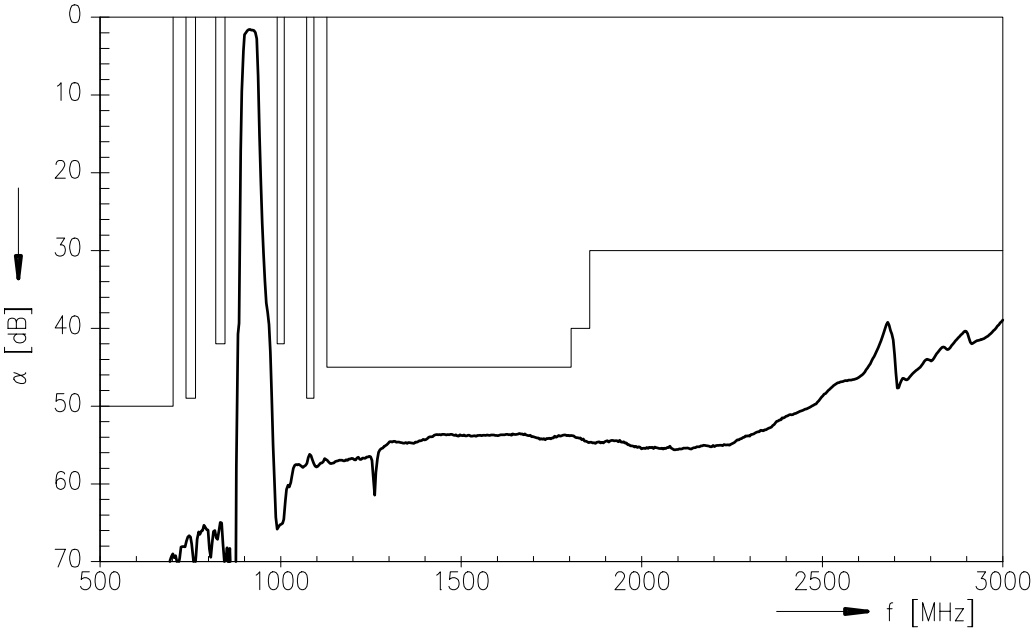
		min.	typ.	max.	
Nominal frequency	f_N	—	915,0	—	MHz
Maximum insertion attenuation	α_{max}				
902,0 ... 928,0 MHz		—	2,0	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
902,0 ... 928,0 MHz		—	0,6	1,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
902,0 ... 928,0 MHz		—	15	50	ns
Return loss (Input and Output)					
902,0 ... 928,0 MHz		12,0	14,0	—	dB
Absolute attenuation	α_{abs}				
0,1 ... 702,0 MHz		50	64	—	dB
738,0 ... 764,0 MHz		49	62	—	dB
820,0 ... 846,0 MHz		42	60	—	dB
990,0 ...1010,0 MHz		42	60	—	dB
1072,0 ...1092,0 MHz		49	54	—	dB
1128,0 ...1804,0 MHz		45	50	—	dB
1804,0 ...1856,0 MHz		40	51	—	dB
1856,0 ...3000,0 MHz		30	40	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

Characteristics

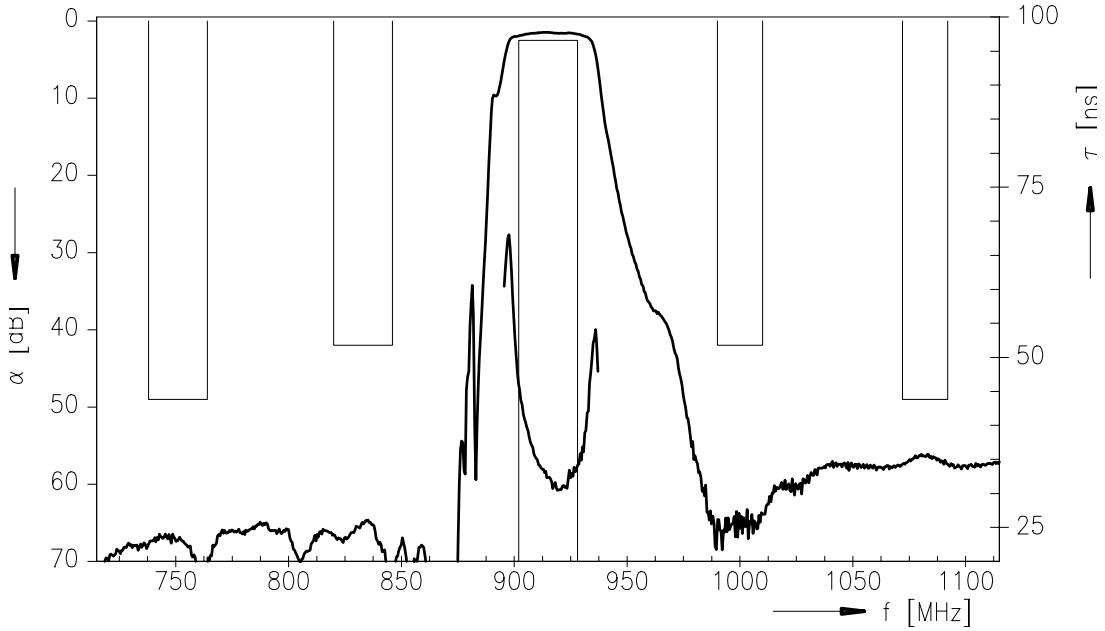
Operating temperature range: T = -30 ... +70 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	915,0	—	MHz
Maximum insertion attenuation	α_{max}				
902,0 ... 928,0 MHz		—	2,1	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
902,0 ... 928,0 MHz		—	0,6	1,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
902,0 ... 928,0 MHz		—	20	50	ns
Return loss (Input and Output)					
902,0 ... 928,0 MHz		10,0	13,5	—	dB
Absolute attenuation	α_{abs}				
0,1 ... 702,0 MHz		50	64	—	dB
738,0 ... 764,0 MHz		49	62	—	dB
820,0 ... 846,0 MHz		42	60	—	dB
990,0 ...1010,0 MHz		42	60	—	dB
1072,0 ...1092,0 MHz		49	54	—	dB
1128,0 ...1804,0 MHz		45	50	—	dB
1804,0 ...1856,0 MHz		40	51	—	dB
1856,0 ...3000,0 MHz		30	40	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

Transfer function



Transfer function (pass band)



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