



SAW Components

Data Sheet B3636





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B3636

Low-Loss Filter

1003,0 MHz

Data Sheet

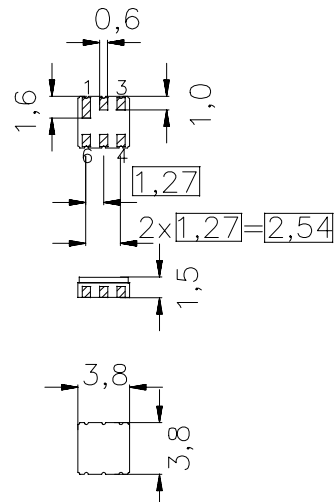
Ceramic package **DCC6**

Features

- Low-loss filter for Fixed Radio Access
- Ceramic SMD package
- No matching network required for operation at 50 Ω

Terminals

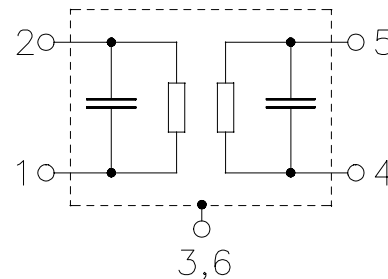
- Gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

- | | |
|------|---------------|
| 2 | Input |
| 5 | Output |
| 1 | Input ground |
| 4 | Output ground |
| 3, 6 | Case ground |



Type	Ordering code	Marking and Package according to	Packing according to
B3636	B39102-B3636-Z610	C61157-A7-A41	F61074-V8030-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	- 40/+ 85	°C	Source and load impedance 50Ω Peak power of GSM signal, duty cycle 1:8 continuous wave
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	10	V	
Input power max.	P_{IN}			
988 ... 1018 MHz		10	dBm	
10 ... 3000 MHz		0	dBm	


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Characteristics

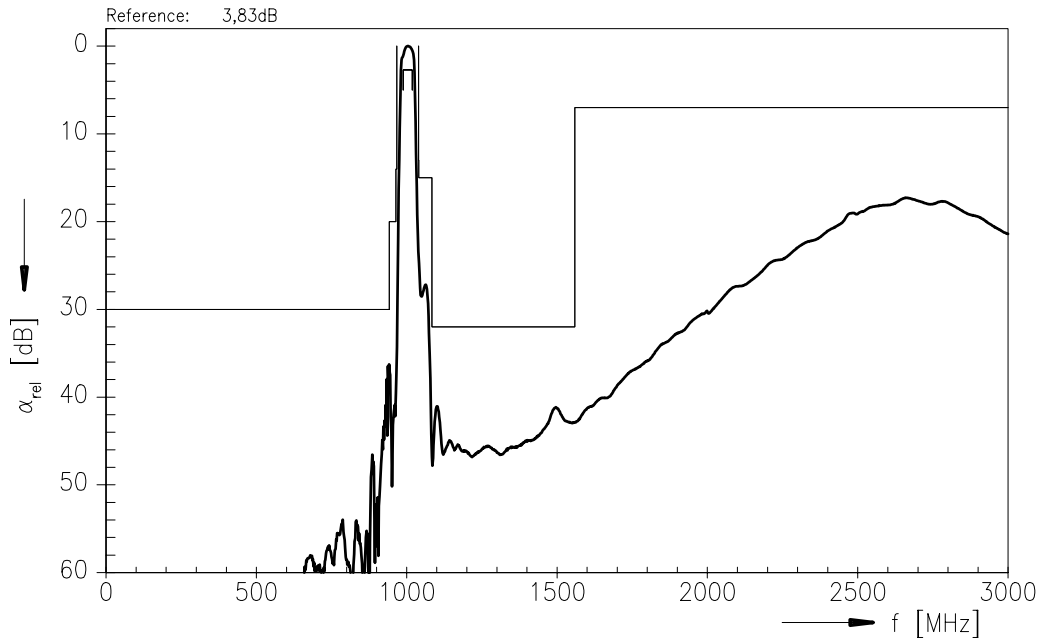
Operating temperature range: $T_A = -40 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

			min.	typ.	max.	
Nominal frequency	f_N		—	1003,0	—	MHz
Minimum insertion attenuation	α_{\min}		—	3,6	5,0	dB
Passband width	$\alpha_{\text{rel}} \leq 3,0 \text{ dB}$	$B_{3,0\text{dB}}$	—	45,5	—	MHz
Amplitude ripple (p-p)	$f_N \pm 15 \text{ MHz}$	$\Delta\alpha$	—	1,3	2,7	dB
Relative attenuation (relative to α_{\min})		α_{rel}				
	10 MHz ... 942 MHz		30	35	—	dB
	942 MHz ... 964 MHz		20	33	—	dB
	964 MHz ... 967 MHz		14	20	—	dB
	1039 MHz ... 1040 MHz		13	18	—	dB
	1040 MHz ... 1084 MHz		15	20	—	dB
Absolute attenuation		α_{abs}				
	1084 MHz ... 1559 MHz		35	42	—	dB
	1559 MHz ... 3000 MHz		10	21	—	dB
VSWR	$f_N \pm 15 \text{ MHz}$		—	2,0	2,5	
Temperature coefficient of frequency	TC_f		—	-70	—	ppm/K

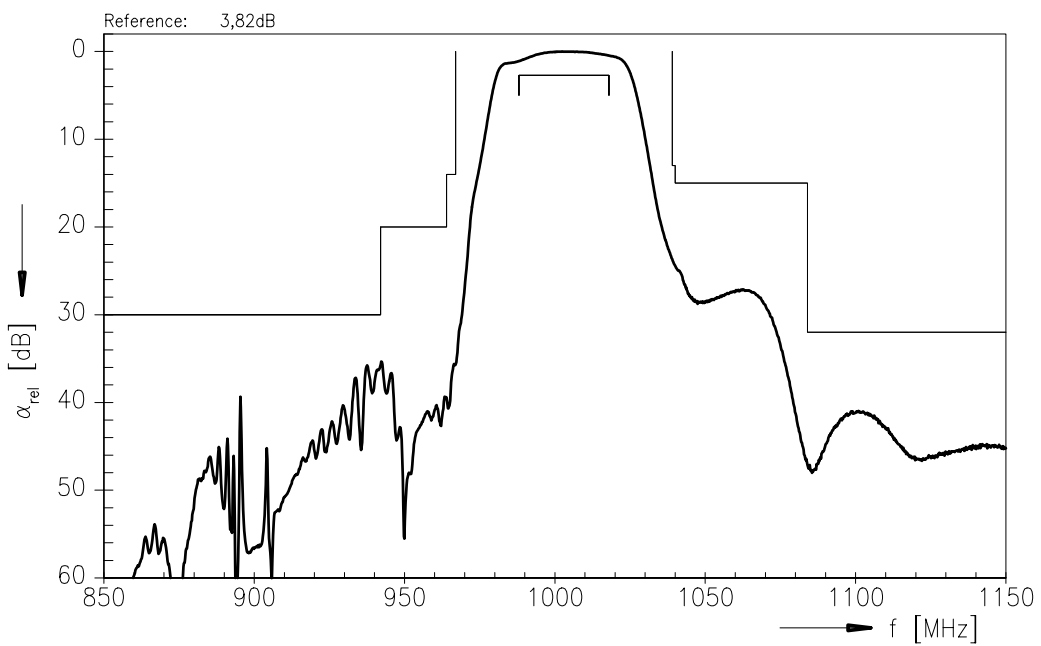


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Transfer function



Transfer function (pass band)





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Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC IS
P.O. Box 80 17 09, D-81617 München

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