



SAW Components

Data Sheet B3852

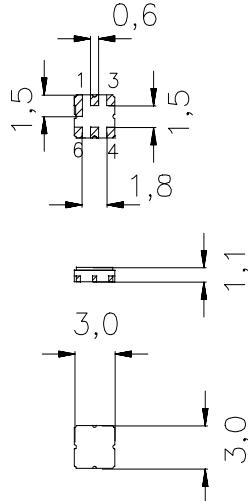
Data Sheet

Features

- Low-loss LO filter for iDEN phone
- Usable bandwidth 6 MHz
- No matching required for operation at $50\ \Omega$
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

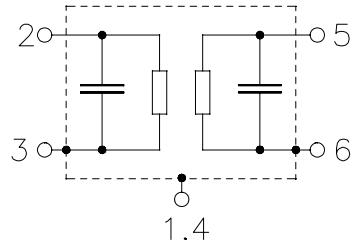
- Gold-plated



typ. Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input
5	Output
1, 3, 4, 6	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3852	B39102-B3852-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T_A	-35 / +85	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	0	V	
Source power (cw)	P_s	0	dBm	source impedance $50\ \Omega$

**SAW Components****B3852****Low-Loss Filter****1047,65 MHz****Data Sheet****Characteristics**

Operating temperature range:

 $T_A = 25 \pm 2 \text{ } ^\circ\text{C}$

Terminating source impedance:

 $Z_S = 50 \Omega$

Terminating load impedance:

 $Z_L = 50 \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1047,65	—	MHz
Maximum insertion attenuation 1044,65 MHz ... 1050,65 MHz	α_{\max}	—	1,65	2,0	dB
Amplitude ripple (p-p) 1044,65 MHz ... 1050,65 MHz	$\Delta\alpha$	—	0,1	0,6	dB
Return loss (Input and Output) 1044,65 MHz ... 1050,65 MHz		14,0	17,0	—	dB
Absolute attenuation	α_{abs}				
0,1 MHz ... 935,0 MHz		40	53	—	dB
935,0 MHz ... 941,0 MHz		40	53	—	dB
1154,3 MHz ... 1160,3 MHz		40	50	—	dB
1160,3 MHz ... 2200,0 MHz		25	42	—	dB
2200,0 MHz ... 3000,0 MHz		23	38	—	dB
Temperature coefficient of frequency	TC_f	—	-36	—	ppm/K

**SAW Components****B3852****Low-Loss Filter****1047,65 MHz****Data Sheet****Characteristics**

Operating temperature range: $T_A = -30 \dots +70^\circ\text{C}$
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1047,65	—	MHz
Maximum insertion attenuation 1044,65 MHz ... 1050,65 MHz	α_{\max}	—	1,8	2,5	dB
Amplitude ripple (p-p) 1044,65 MHz ... 1050,65 MHz	$\Delta\alpha$	—	0,3	1,0	dB
Return loss (Input and Output) 1044,65 MHz ... 1050,65 MHz		14,0	16,0	—	dB
Absolute attenuation	α_{abs}				
0,1 MHz ... 935,0 MHz		40	53	—	dB
935,0 MHz ... 941,0 MHz		40	53	—	dB
1154,3 MHz ... 1160,3 MHz		40	50	—	dB
1160,3 MHz ... 2200,0 MHz		25	42	—	dB
2200,0 MHz ... 3000,0 MHz		23	38	—	dB
Temperature coefficient of frequency	TC_f	—	-36	—	ppm/K

SAW Components

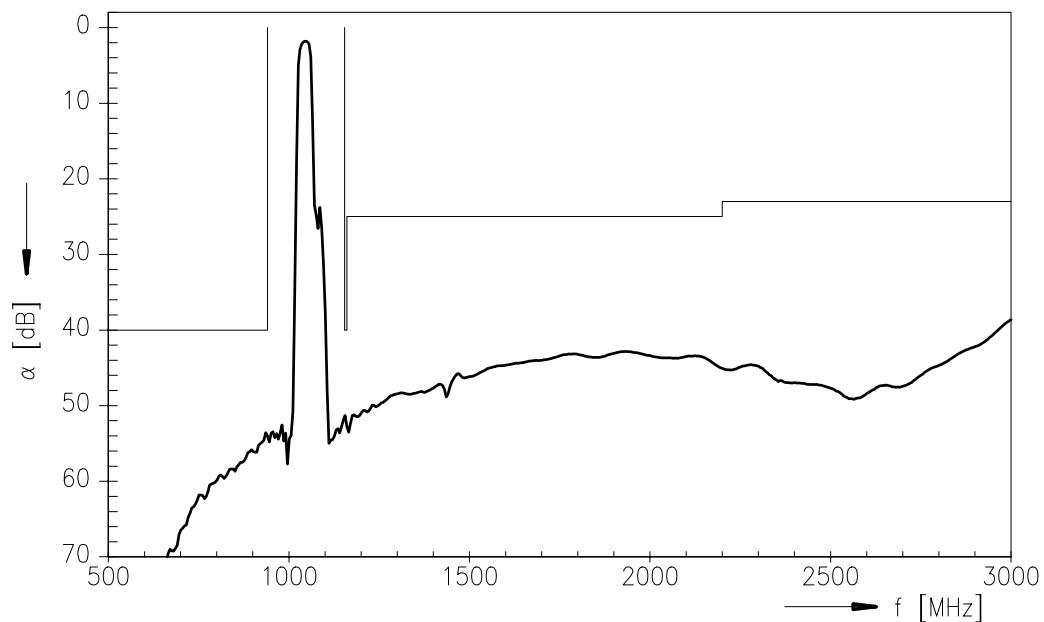
B3852

Low-Loss Filter

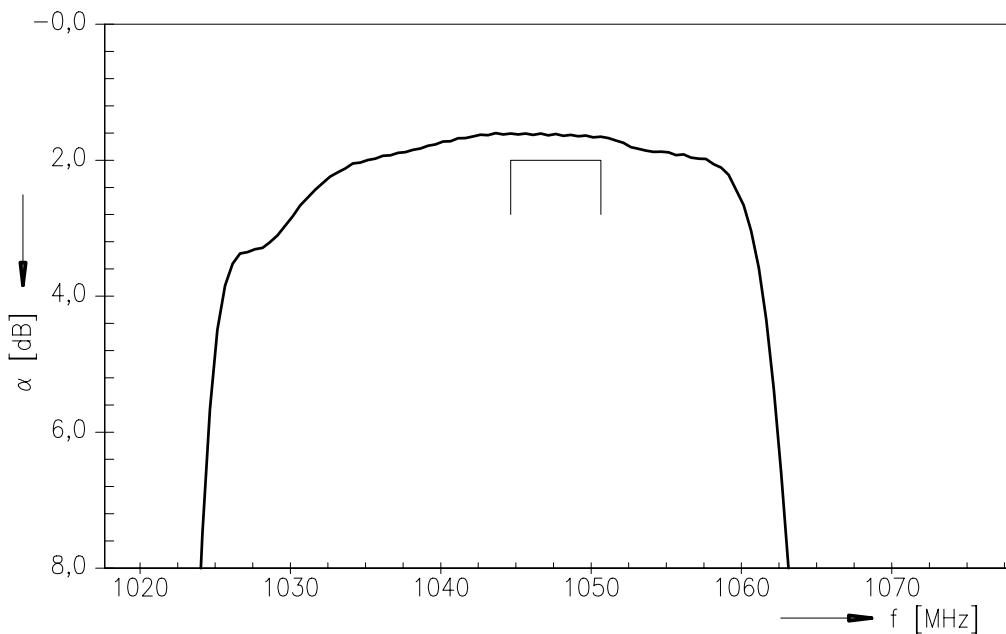
1047,65 MHz

Data Sheet

Transfer function



Transfer function (pass band, 25 °C)





SAW Components

B3852

Low-Loss Filter

1047,65 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC IS

P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.