

# **Trunked Radio Filters**

Series/Type: B3676

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39431B3676U310		2007-09-21	2007-12-31	2008-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW Components B3676
Low-Loss Filter 425,0 MHz

**Data Sheet** 

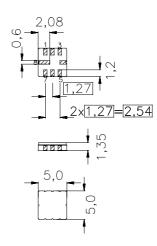
## Ceramic package QCC8C

#### **Features**

- Low-loss filter for TETRA
- Usable bandwidth 10 MHz
- No matching required for operation at 50  $\Omega$
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

#### **Terminals**

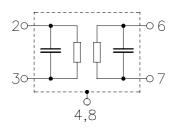
Gold-plated



typ. Dimensions in mm, approx. weight 0,10 g

## Pin configuration

Input
Input ground
Output
Output ground
Ground
Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B3676	B39431-B3676-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

## **Maximum ratings**

Operable temperature range	$T_{A}$	-40 / +85	°C	
Storage temperature range	$T_{\rm stg}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	$P_{s}$	10	dBm	source impedance 50 $\Omega$



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**Low-Loss Filter** 425,0 MHz

**Data Sheet** 

Characteristics

Operating temperature range:

 $T_{A} = +15 \dots +35 \,^{\circ} \text{C}$   $Z_{S} = 50 \,\Omega$   $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f <sub>N</sub>		425,0	_	MHz
Maximum insertion attenuation	$\alpha_{max}$				
420,0 MHz 430,0 MHz		_	2,5	4,0	dB
Amplitude ripple (p-p)	Δα				
420,0 MHz 430,0 MHz			0,45	1,0	dB
VSWR					
420,0 MHz 430,0 MHz		_	1,4:1	2,0:1	
Absolute attenuation	$lpha_{abs}$				
0,3 MHz 350,0 MHz	aso	40	55	_	dB
350,0 MHz 400,0 MHz		20	45	_	dB
455,0 MHz 471,0 MHz		20	27	_	dB
490,0 MHz 512,0 MHz		30	60	_	dB
525,0 MHz 553,0 MHz		20	60	_	dB
560,0 MHz 593,0 MHz		40	60	_	dB
593,0 MHz 910,0 MHz		20	50	_	dB
910,0 MHz 1105,0 MHz		40	42	_	dB
1105,0 MHz 2000,0 MHz		20	25	_	dB
Temperature coefficient of frequency	TC <sub>f</sub>		-70		ppm/K



SAW Components B3676

**Low-Loss Filter** 425,0 MHz

**Data Sheet** 

## Characteristics

Operating temperature range:

 $T_{A} = -30 \dots +70 \,^{\circ}\text{C}$   $Z_{S} = 50 \,\Omega$   $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

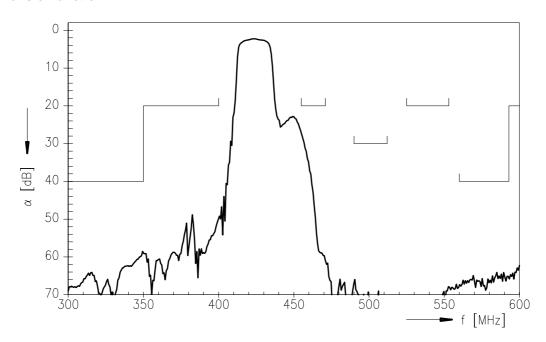
		min.	typ.	max.	
Nominal frequency	f <sub>N</sub>	_	425,0	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
420,0 MHz 430,0 MHz		_	3,0	5,0	dB
Amplitude ripple (p-p)	Δα				
420,0 MHz 430,0 MHz			0,6	2,0	dB
VSWR					
420,0 MHz 430,0 MHz		_	1,4:1	2,0:1	
Absolute attenuation	$lpha_{\sf abs}$				
0,3 MHz 350,0 MHz		40	55	_	dB
350,0 MHz 400,0 MHz		20	45	_	dB
455,0 MHz 471,0 MHz		20	27	_	dB
490,0 MHz 512,0 MHz		30	60	_	dB
525,0 MHz 553,0 MHz		20	60	_	dB
560,0 MHz 593,0 MHz		40	60	_	dB
593,0 MHz 910,0 MHz		20	50	_	dB
910,0 MHz 1105,0 MHz		40	42	_	dB
1105,0 MHz 2000,0 MHz		20	25	_	dB
Temperature coefficient of frequency	<i>TC</i> <sub>f</sub>	_	- 70	<u> </u>	ppm/K



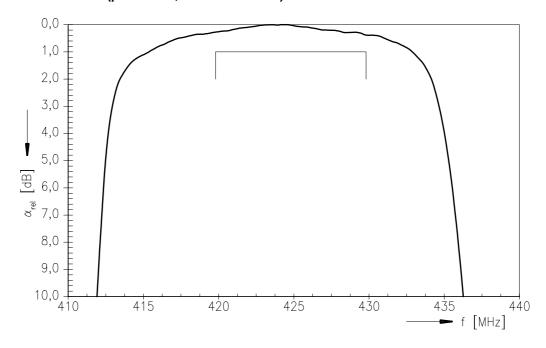
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## **Transfer function**



# Transfer function (pass band; +15 °C ... +35 °C)





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