

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The following products presented in this data sheet are being withdrawn.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

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SAW Components Low-Loss Filter

B3676 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 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

• Gold-plated



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

Pin configuration

- 2 Input
 3 Input ground
 6 Output
 7 Output ground
 1, 5 Ground
- 4, 8 Case ground



Туре	Ordering code	Marking and Package	Packing	
		according to	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 _{stg}	-40 / +85	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	source impedance 50 Ω



SAW Components		B3676
Low-Loss Filter		425,0 MHz
Data Sheet Characteristics		
Operating temperature range: Terminating source impedance: Terminating load impedance:	$T_{A} = +15 \dots +35 \text{°C}$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	

		min.	typ.	max.	
Nominal frequency	f _N		425,0		MHz
Maximum insertion attenuation	α_{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	α_{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	TC _f		- 70	_	ppm/K



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Low-Loss Filter		425,0 MHz
Data Sheet Characteristics		
Operating temperature range: Terminating source impedance: Terminating load impedance:	$T_{A} = -30 +70 \ ^{\circ}C$ $Z_{S} = 50 \ \Omega$ $Z_{L} = 50 \ \Omega$	

		min.	typ.	max.	
Nominal frequency	f _N		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	α_{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	TC _f		- 70		ppm/k

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Transfer function



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



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Data Sheet

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