

SAW Components

Data Sheet B4232

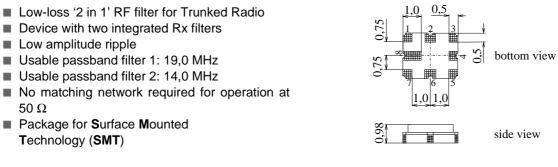




Data Sheet

Features

Ceramic package QCC8E



Terminals

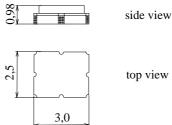
50 Ω

Ni, gold-plated

Low amplitude ripple

Technology (SMT)

■ Package for Surface Mounted

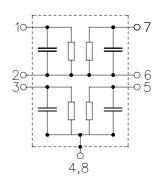


Dimensions in mm, approx. weight 0,027g

Pin configuration

1	Input (filter 1)
7	Output (filter 1)
3	Input (filter 2)
5	Output (filter 2)
2,6	Ground

4,8 Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B4232	B39861-B4232-H410	C61157-A7-A92	F61074-V8174-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 / + 85	°C	
Storage temperature range	T _{stg}	– 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V [*] ESD	100	V	Machine Model, 10 pulses
Source power (cw)	Ps	15	dBm	source and load impedance 50 $\boldsymbol{\Omega}$

*-acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



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Low-Loss '2 in 1' Filter for Mobile Communication	769,0/860,5 MHz
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Operating temperature range:	$T = 25 \pm 2$ °C
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{\rm L} = 50 \ \Omega$

		min.	typ.	max.	
Nominal frequency	f _N	_	860,5		MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
851,0 870,0	MHz	_	2,1	2,5	dB
Amplitude ripple (p-p)	Δα				
851,0 870,0	MHz	-	0,7	1,1	dB
Group delay ripple (p-p)	$\Delta \tau$				
851,0 870,0	MHz	-	20,0	50,0	ns
Return loss (Input and Output)					
851,0 870,0	MHz	10,0	11,5	_	dB
Absolute attenuation	α_{abs}				
0,1 483,0	MHz	57	60	_	dB
	MHz	50	60	—	dB
	MHz	40	64	—	dB
741,4 773,0	MHz	30	59	—	dB
	MHz	20	42	—	dB
880,0	MHz	7	11	_	dB
898,0 918,0	MHz	20	40	_	dB
	MHz	30	59	_	dB
1040,0 1070,0	MHz	46	54	_	dB
1070,0 1256,0	MHz	43	50	_	dB
1256,0 2000,0	MHz	30	40	—	dB
Temperature coefficient of frequency	TC _f		- 36		ppm/K

2 z



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Operating temperature range:	Т	= -30 +70 °C
Terminating source impedance:	Z_{S}	= 50 Ω
Terminating load impedance:	Z_{L}	= 50 Ω

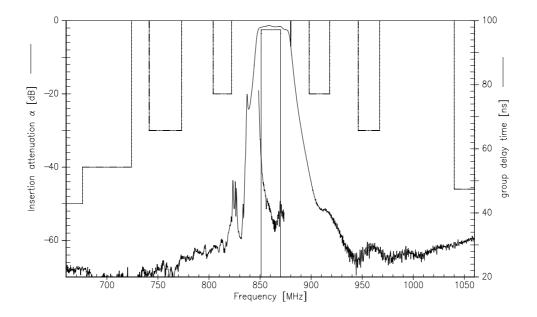
		min.	typ.	max.	
Nominal frequency	f _N	_	860,5		MHz
Maximum insertion attenuation	α_{max}				
851,0 870,0	MHz		2,4	2,7	dB
Amplitude ripple (p-p)	Δα				
	MHz	_	1,0	1,3	dB
Group delay ripple (p-p)	$\Delta \tau$				
	MHz	_	30,0	50,0	ns
Return loss (Input and Output)					
851,0 870,0	MHz	10,0	11,0		dB
Absolute attenuation	α_{abs}				
	MHz	57	60	-	dB
	MHz	50	60	-	dB
	MHz	40	64	-	dB
	MHz	30	59	_	dB
804,0 822,0	MHz	20	42	-	dB
880,0	MHz	4	7	_	dB
898,0 918,0	MHz	20	38	_	dB
946,0 967,0	MHz	30	59	_	dB
1040,0 1070,0	MHz	46	54	-	dB
1070,0 1256,0	MHz	43	50	_	dB
1256,0 2000,0	MHz	30	40	_	dB
Temperature coefficient of frequency	TC _f		- 36		ppm/K



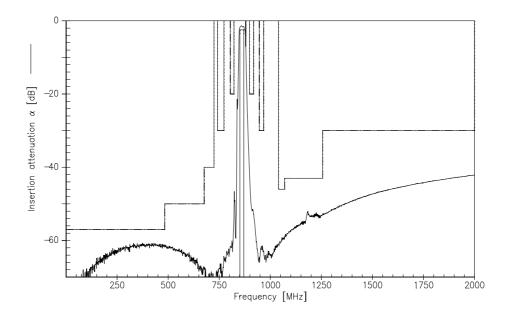


Data Sheet

Transfer function filter 1 (narrow band)



Transfer function filter 1 (wide band)



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Operating temperature range:	$T = 25 \pm 2$ °C
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{\rm L} = 50 \ \Omega$

		min.	typ.	max.	
Nominal frequency	f _N	—	769,0	_	MHz
Maximum insertion attenuation	α_{max}				
762,0 776,0	MHz	_	1,7	2,4	dB
Amplitude ripple (p-p)	Δα				
762,0 776,0	MHz	-	0,4	1,0	dB
Group delay ripple (p-p)	Δau				
762,0 776,0	MHz	-	22,0	50,0	ns
Return loss (Input and Output)					
762,0 776,0	MHz	12,0	13,0		dB
Absolute attenuation	α_{abs}				
0,0 431,0	MHz	57	60		dB
431,0 604,0	MHz	50	60		dB
604,0 690,0	MHz	30	62	_	dB
690,0 733,0	MHz	20	56	_	dB
733,0 752,0	MHz	9	18	_	dB
804,0 847,0	MHz	25	36	_	dB
847,0 892,7	MHz	30	54	_	dB
892,7 910,7	MHz	50	56	_	dB
910,7 995,3	MHz	47	54	—	dB
995,31121,0	MHz	42	52	_	dB
Temperature coefficient of frequency	<i>TC</i> _f		- 36		ppm/K

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Operating temperature range:	Т	= -30 +70 °C
Terminating source impedance:	Z_{S}	= 50 Ω
Terminating load impedance:	Z_{L}	= 50 Ω

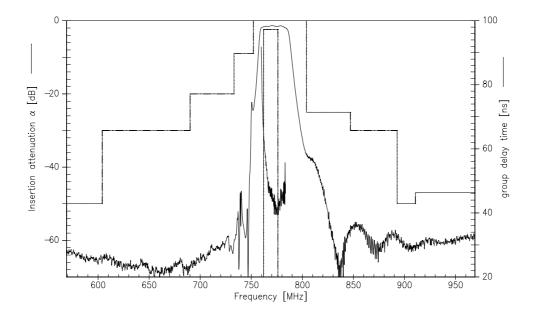
		min.	typ.	max.	
Nominal frequency	f _N		769,0	-	MHz
Maximum insertion attenuation	α_{max}				
762,0 776,0	MHz	_	1,8	2,6	dB
Amplitude ripple (p-p)	Δα				
762,0 776,0	MHz	_	0,5	1,0	dB
Group delay ripple (p-p)	$\Delta \tau$				
762,0 776,0	MHz	_	30,0	50,0	ns
Return loss (Input and Output)					
762,0 776,0	MHz	12,0	13,0	-	dB
Absolute attenuation	α_{abs}				
0,0 431,0	MHz	57	60	_	dB
431,0 604,0	MHz	50	60	_	dB
604,0 690,0	MHz	30	62	_	dB
690,0 733,0	MHz	20	56	_	dB
733,0 752,0	MHz	9	16	_	dB
804,0 847,0	MHz	25	34	-	dB
847,0 892,7	MHz	30	54	-	dB
892,7 910,7	MHz	50	56	-	dB
910,7 995,3	MHz	47	54	-	dB
995,31121,0	MHz	42	52	-	dB
Temperature coefficient of frequency	<i>TC</i> _f		- 36		ppm/K

2 z

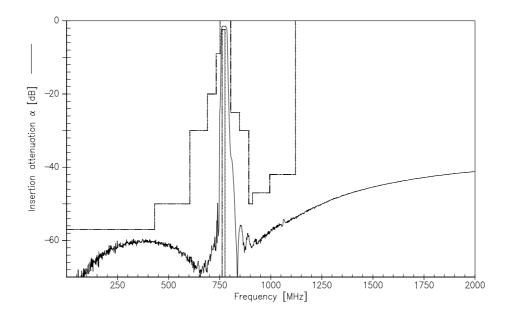


Data Sheet

Transfer function filter 2 (narrow band)



Transfer function filter 2 (wide band)



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