



SAW Components

Data Sheet B3682

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns, suggesting a global network or technological theme. The overall color scheme is dark with blue and white highlights.



SAW Components

B3682

Low-Loss Filter

427,5 MHz

Data Sheet

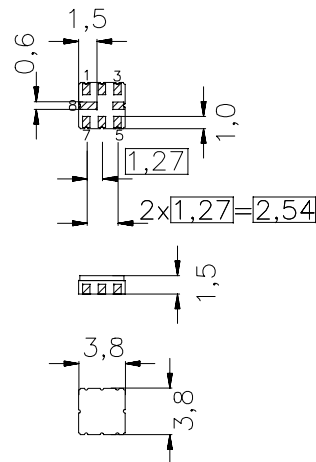
Ceramic package QCC8B

Features

- Low-loss filter (RX) for Trunked Radio
- Usable bandwidth 5 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

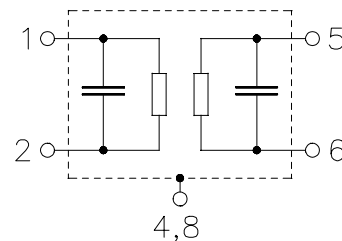
- Gold-plated



typ. Dimensions in mm, approx. weight 0,07 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B3682	B39431-B3682-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-30 / +75	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-40 / +85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range:	$T_A = +15 \dots +35 \text{ }^{\circ}\text{C}$
Terminating source impedance:	$Z_S = 50 \text{ }\Omega$
Terminating load impedance:	$Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	427,5	—	MHz
Maximum insertion attenuation 425,0 MHz ... 430,0 MHz	$\alpha_{\max}$	—	3,0	3,5	dB
Amplitude ripple (p-p) 425,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,6	1,2	dB
Return loss (Input and Output) 425,0 MHz ... 430,0 MHz		11,0	13,5	—	dB
VSWR 425,0 MHz ... 430,0 MHz		—	1,5:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz ... 340,0 MHz		40	60	—	dB
340,0 MHz ... 415,0 MHz		25	45	—	dB
415,0 MHz ... 420,0 MHz		25	33	—	dB
447,0 MHz ... 515,0 MHz		20	45	—	dB
515,0 MHz ... 1105,0 MHz		40	45	—	dB
1105,0 MHz ... 1800,0 MHz		20	25	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



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Characteristics

Operating temperature range: $T_A = -30 \dots +75 \text{ }^\circ\text{C}$
Terminating source impedance: $Z_S = 50 \text{ }\Omega$
Terminating load impedance: $Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	427,5	—	MHz
Maximum insertion attenuation 425,0 MHz ... 430,0 MHz	$\alpha_{\max}$	—	3,0	3,5	dB
Amplitude ripple (p-p) 425,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,9	2,0	dB
Return loss (Input and Output) 425,0 MHz ... 430,0 MHz		11,0	13,5	—	dB
VSWR 425,0 MHz ... 430,0 MHz		—	1,5:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz ... 340,0 MHz		40	60	—	dB
340,0 MHz ... 415,0 MHz		25	45	—	dB
415,0 MHz ... 420,0 MHz		25	33	—	dB
447,0 MHz ... 515,0 MHz		20	45	—	dB
515,0 MHz ... 1105,0 MHz		40	45	—	dB
1105,0 MHz ... 1800,0 MHz		20	25	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



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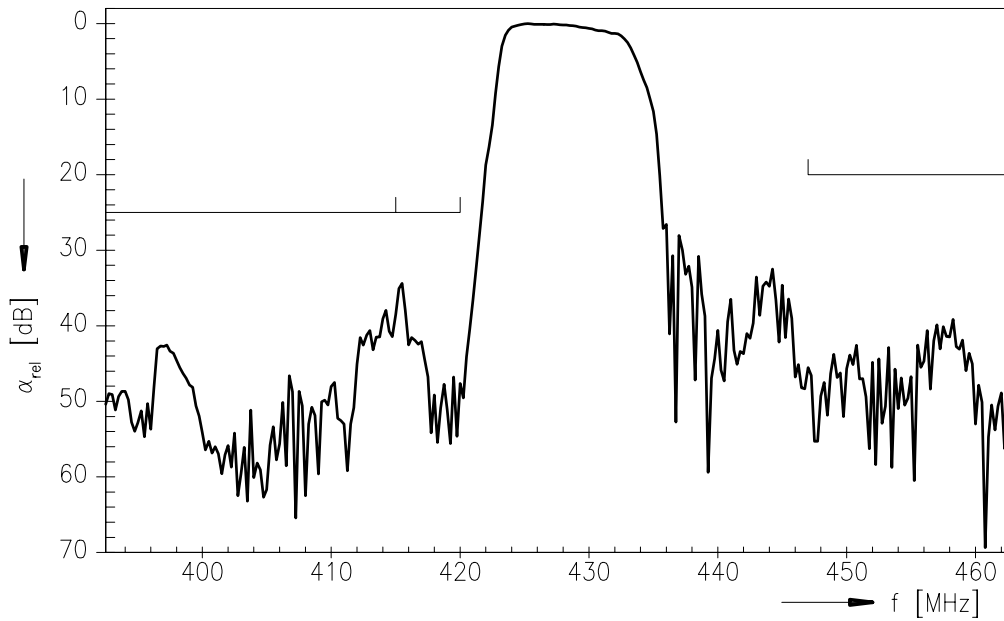
B3682

Low-Loss Filter

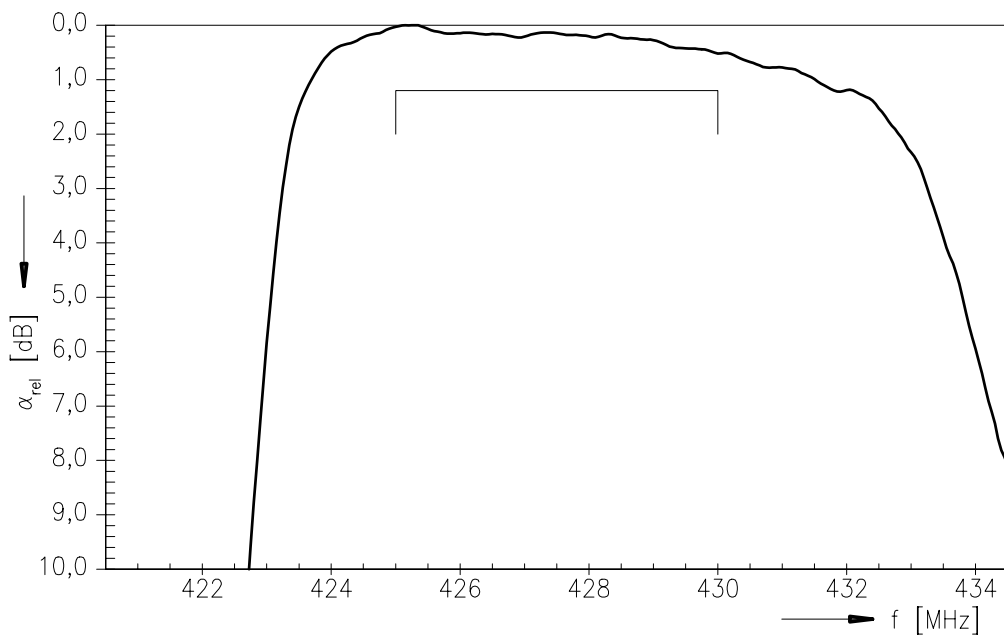
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Transfer function



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





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