



SAW Components

Data Sheet B3630





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B3630

Low-Loss Filter

151,2 MHz

Data Sheet

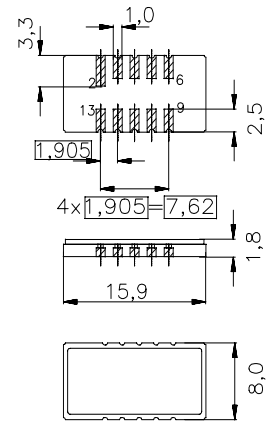
Ceramic package **DCC14B**

Features

- Low-loss IF filter for GSM base station
- Temperature stable
- Ceramic SMD package

Terminals

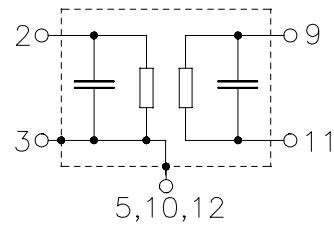
- Gold plated



Dim. in mm, aprox. weight 0,6 g

Pin configuration

- | | |
|--------------|---------------|
| 2 | Input |
| 9 | Output |
| 3 | Input ground |
| 11 | Output ground |
| 4, 6, 13 | Ground |
| 3, 5, 10, 12 | Case ground |



Type	Ordering code	Marking and Package according to	Packing according to
B3630	B39151-B3630-U110	C61157-A7-A45	F61074-V8036-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 25/+ 85	°C
Storage temperature range	T_{stg}	- 40/+ 85	°C
DC voltage	V_{DC}	0	V
Source power	P_s	12	dBm


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Characteristics

Reference temperature:

$$T_A = -5 - 75 \text{ }^\circ\text{C}$$

Terminating source impedance:

$$Z_S = 50 \text{ } \Omega \text{ and matching network}$$

Terminating load impedance:

$$Z_L = 50 \text{ } \Omega \text{ and matching network}$$

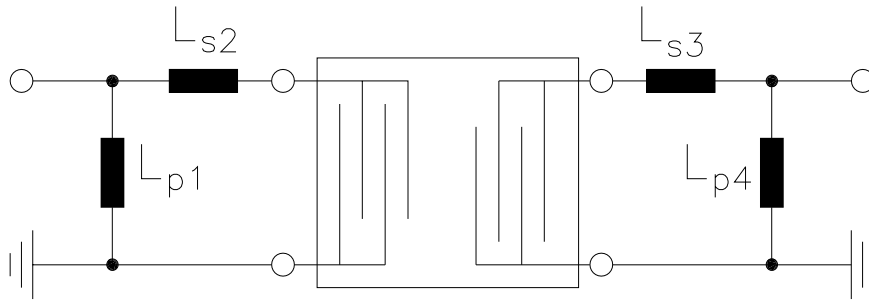
		min.	typ.	max.	
Nominal frequency	f_N	151,2	151,2	151,2	MHz
Insertion attenuation (@ f_N) (including matching network)	α_{\min}	—	8,6	9,5	dB
Passband width					
	$\alpha_{\text{rel}} \leq 3,0 \text{ dB}$	$B_{3,0\text{dB}}$	370	—	kHz
Amplitude ripple (p-p)					
	$\Delta\alpha$				
	$f_N \pm 95 \text{ kHz}$	—	0,4	0,6	dB
	$f_N \pm 120 \text{ kHz}$	—	0,8	1,5	dB
Absolute group delay (@ f_N)	τ	—	2,1	4,0	μs
Group delay ripple (p-p)					
	$\Delta\tau$				
	$f_N \pm 95 \text{ kHz}$	—	0,4	0,7	μs
	$f_N \pm 120 \text{ kHz}$	—	0,7	0,9	μs
Relative attenuation (relative to α_{\min})	α_{rel}				
	$f_N \pm 330 \text{ kHz} \dots f_N \pm 600 \text{ kHz}$	9	11	—	dB
	$f_N \pm 600 \text{ kHz} \dots f_N \pm 800 \text{ kHz}$	22	27	—	dB
	$f_N \pm 800 \text{ kHz} \dots f_N \pm 3 \text{ MHz}$	30	41	—	dB
	$f_N \pm 3 \text{ MHz} \dots f_N \pm 20 \text{ MHz}$	42	48	—	dB
	@ $f_N - 3,4 \text{ MHz}$	52,5	57	—	dB
	@ $f_N + 3,1 \text{ MHz}$	48,5	52	—	dB
	@ $f_N + 6,5 \text{ MHz}$	49,5	56	—	dB
	@ $f_N + 9,6 \text{ MHz}$	43,5	48	—	dB
Temperature coefficient of frequency ¹⁾	TC_f	—	- 0,036	—	ppm/K ²
Turnover temperature	T_0	—	35	—	$^\circ\text{C}$

¹⁾ Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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Matching network:

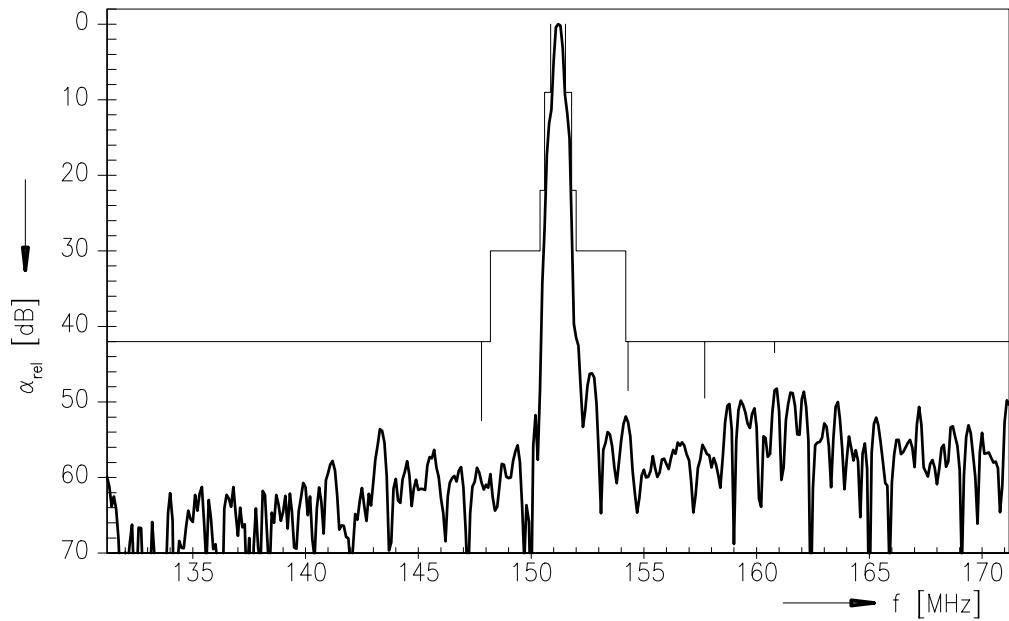


- $L_{p1} = 39 \text{ nH}$
- $L_{s2} = 56 \text{ nH}$
- $L_{s3} = 62 \text{ nH}$
- $L_{p4} = 39 \text{ nH}$

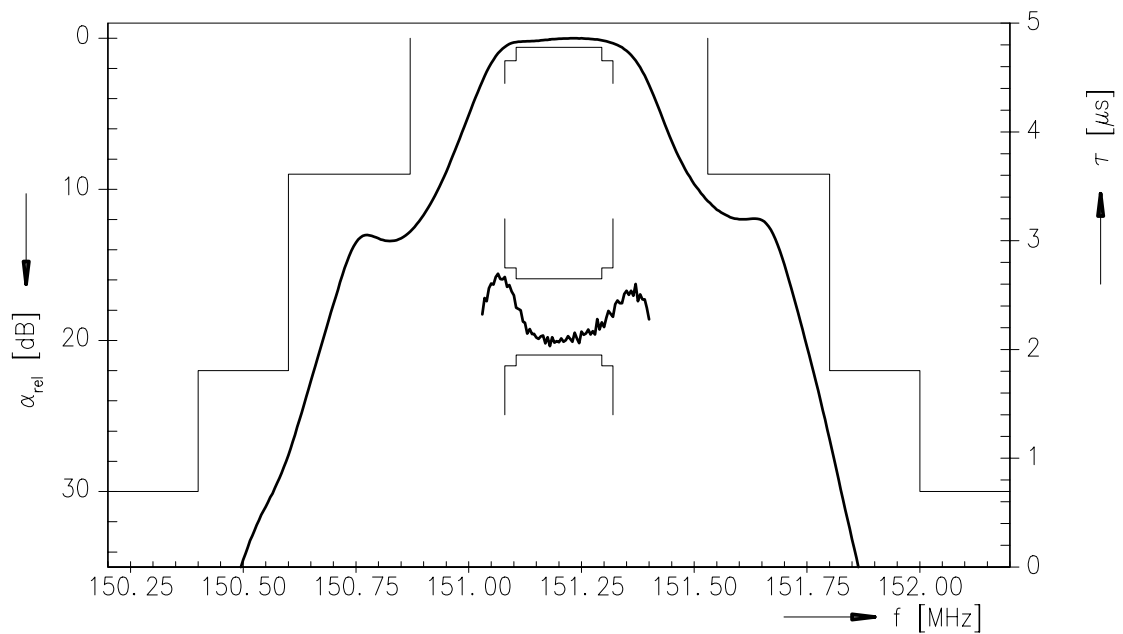


Data Sheet

Normalized frequency response



Normalized frequency response (pass band)





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