

SAW Components

Data Sheet B3868





Data Sheet

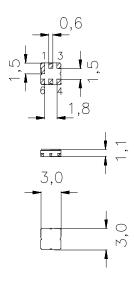
Ceramic package DCC6C

Features

- Low-loss RF filter for TETRA phone
- Usable bandwidth 25 MHz
- No matching required for operation at 50 Ω
- Ceramic package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- RoHS compliant

Terminals

Gold-plated Ni

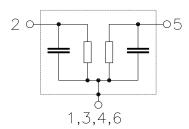


Dimensions in mm, approx. weight 0,037 g

Pin configuration

InputOutput

1, 3, 4, 6 Case grounded



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B3868	B39931-B3868-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-35 / +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)	P_{S}	6	dBm	source and load impedance 50 Ω

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



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Characteristics

Operating temperature range: $T_{\rm A}=25\pm10\,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50\,\Omega$ Terminating load impedance: $Z_{\rm L}=50\,\Omega$

		min.	typ.	max.	
Nominal frequency	f_{N}	_	929,5		MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
917,0 MHz 942,0 MHz		_	1,9	2,5	dB
Amplitude ripple (p-p)	Δα				
917,0 MHz 942,0 MHz		_	0,6	1,0	dB
Group delay ripple (p-p)	Δτ				
917,0 MHz 942,0 MHz		_	20	30	ns
Return loss (Input and Output)					
917,0 MHz 942,0 MHz		10,0	11,5		dB
Absolute attenuation	$lpha_{abs}$				
0,1 MHz 800,0 MHz		46	60	_	dB
800,0 MHz 870,0 MHz		40	60	_	dB
870,0 MHz 890,0 MHz		31	60	_	dB
890,0 MHz 900,0 MHz		17	22	_	dB
961,0 MHz 1005,0 MHz		20	26	_	dB
1005,0 MHz 1035,0 MHz		30	56	_	dB
1035,0 MHz 1070,0 MHz		45	50	_	dB
1070,0 MHz 1760,0 MHz		40	46	_	dB
1760,0 MHz 3120,0 MHz		30	39	_	dB
3120,0 MHz 4000,0 MHz		18	30	_	dB
4000,0 MHz 6000,0 MHz		_	5	_	dB
Temperature coefficient of frequency	TC _f		- 36		ppm/ł



SAW Components B3868 929,5 MHz **Low-Loss Filter**

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Characteristics

Operating temperature range:

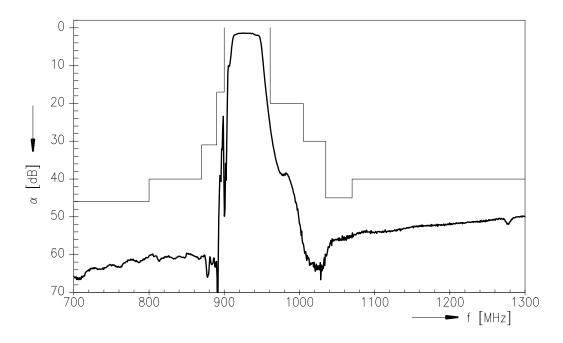
 $T_{A} = -30 \text{ to } +85 \degree \text{C}$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f _N	_	929,5	_	MHz
Maximum insertion attenuation	α_{max}				
917,0 MHz 942,0 MHz		_	2,2	3,3	dB
Amplitude ripple (p-p)	Δα				
917,0 MHz 942,0 MHz		_	0,7	1,2	dB
Group delay ripple (p-p)	Δτ				
917,0 MHz 942,0 MHz		_	24	40	ns
Return loss (Input and Output)					
917,0 MHz 942,0 MHz		9,0	11,0	<u> </u>	dB
Absolute attenuation	α_{abs}				
0,1 MHz 800,0 MHz		46	60	_	dB
800,0 MHz 870,0 MHz		40	60	_	dB
870,0 MHz 890,0 MHz		31	60	_	dB
890,0 MHz 900,0 MHz		15	22	_	dB
961,0 MHz 1005,0 MHz		19	23	_	dB
1005,0 MHz 1035,0 MHz		30	56	_	dB
1035,0 MHz 1070,0 MHz		45	50	_	dB
1070,0 MHz 1760,0 MHz		40	46	_	dB
1760,0 MHz 3120,0 MHz		30	39	_	dB
3120,0 MHz 4000,0 MHz		18	30	_	dB
4000,0 MHz 6000,0 MHz		_	5	_	dB
Temperature coefficient of frequency	TC _f	_	- 36	<u> </u>	ppm/K

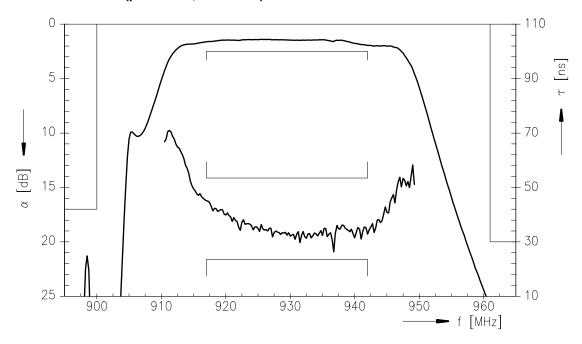


Data Sheet

Transfer function



Transfer function (pass band, 25 \pm 10 $^{\circ}\text{C})$





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