

SAW Components

Data Sheet B3858





SAW Components B3858 924,5 MHz **Low-Loss Filter**

Data Sheet

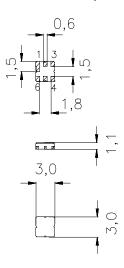
Ceramic package DCC6C

Features

- Low-loss RF filter for TETRA phone
- Usable bandwidth 5 MHz
- \bullet No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

Gold-plated

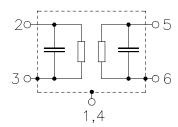


typ. Dimensions in mm, approx. weight 0,037 g

Pin configuration

2 Input Output

1, 3, 4, 6 To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to
B3858	B39921-B3858-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-35 / +85	°C	
Storage temperature range	$T_{\rm stg}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power (cw)	$P_{\rm s}$	6	dBm	source impedance 50 Ω



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Characteristics

Low-Loss Filter

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		_	924,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$		1.0	2,8	dB
922,0 MHz 927,0 MHz		_	1,8	2,0	ub
Amplitude ripple (p-p)	$\Delta \alpha$				
922,0 MHz 927,0 MHz		_	0,3	1,0	dB
Group delay ripple (p-p)	Δτ		4.5	4.0	
922,0 MHz 927,0 MHz			15	40	ns
Return loss (Input and Output)					
922,0 MHz 927,0 MHz		11,0	17,0	_	dB
Absolute attenuation	α_{abs}				
0,1 MHz 895,0 MHz	abo	12	34	_	dB
937,0 MHz 942,0 MHz		10	16	_	dB
942,0 MHz 947,0 MHz		14	27	_	dB
947,0 MHz 952,0 MHz		18	29	_	dB
952,0 MHz 2000,0 MHz		26	29	_	dB
2000,0 MHz 4000,0 MHz		15	26	_	dB
Temperature coefficient of frequency TC ₁		_	- 36	_	ppm/K



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Operating temperature range:

 $T_{A} = -30 \dots +75 \,^{\circ} \text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

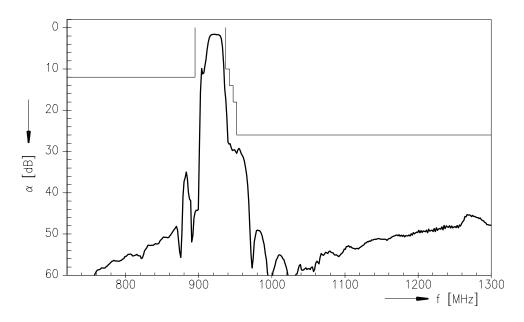
		min.	typ.	max.	
Nominal frequency	f _N	_	924,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
922,0 MHz 927,0 MHz		_	2,0	3,4	dB
Amplitude ripple (p-p)	Δα				
922,0 MHz 927,0 MHz		_	0,3	1,3	dB
Group delay ripple (p-p)	Δau				
922,0 MHz 927,0 MHz		_	20	40	ns
Return loss (Input and Output)					
922,0 MHz 927,0 MHz		11,0	17,0	_	dB
Absolute attenuation	α_{abs}				
0,1 MHz 895,0 MHz		10	34	_	dB
937,0 MHz 942,0 MHz		8	14	_	dB
942,0 MHz 947,0 MHz		12	27	_	dB
947,0 MHz 952,0 MHz		15	29		dB
952,0 MHz 2000,0 MHz		26	29	_	dB
2000,0 MHz 4000,0 MHz		15	26	_	dB
Temperature coefficient of frequency	TC _f		- 36	_	ppm/K



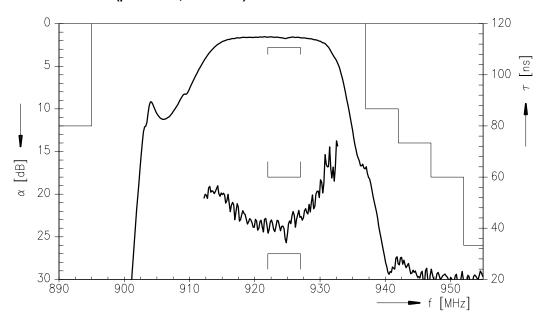
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Transfer function



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





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