

SAW Components

Data Sheet B3858





SAW Components

B3858 924,5 MHz

Data Sheet

Low-Loss Filter

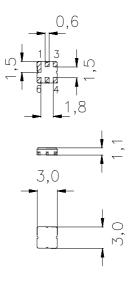
Ceramic package DCC6C

Features

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

Terminals

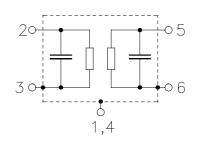
• Gold-plated



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

Pin configuration

-	
2	Input
5	Output
1, 3, 4, 6	To be grounded



Туре	Ordering code	Marking and Package	Packing
		according to	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 _{stg}	-40 / +85	°C	
DC voltage	V _{DC}	0	V	
Source power (cw)	Ps	6	dBm	source impedance 50 Ω

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Operating temperature range: Terminating source impedance: Terminating load impedance:	$T_{A} = 25 \pm 10 \text{ °C}$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	

		min.	typ.	max.	
Nominal frequency	f _N		924,5		MHz
Maximum insertion attenuation	α_{max}				
922,0 MHz 927,0 MHz		—	1,8	2,8	dB
Amplitude ripple (p-p)	Δα				
922,0 MHz 927,0 MHz		—	0,3	1,0	dB
Group delay ripple (p-p)	Δτ				
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		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 _f		- 36		ppm/ł



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Characteristics

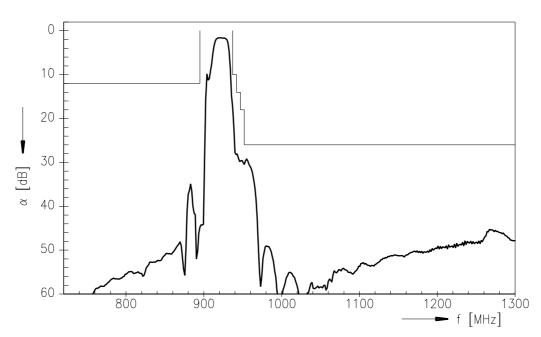
Operating temperature range:	<i>T</i> _A = -30 +75 °C
Terminating source impedance:	$Z_{\rm S}$ = 50 Ω
Terminating load impedance:	$Z_{\rm L}$ = 50 Ω

		min.	typ.	max.	
Nominal frequency	f _N		924,5		MHz
Maximum insertion attenuation	α_{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)	Δτ				
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

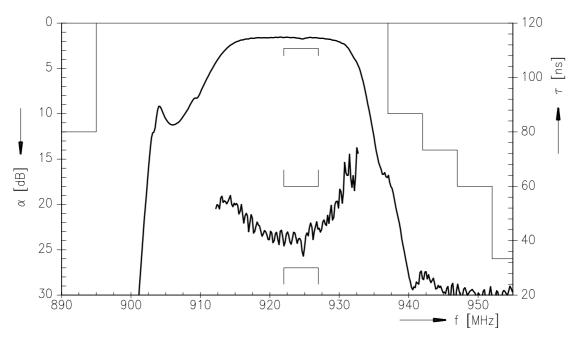




Transfer function



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



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