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# SAW Components

Data Sheet B3824

Data Sheet

EP



## SAW Components

B3824

### Low-Loss Filter

1910 MHz

#### Data Sheet

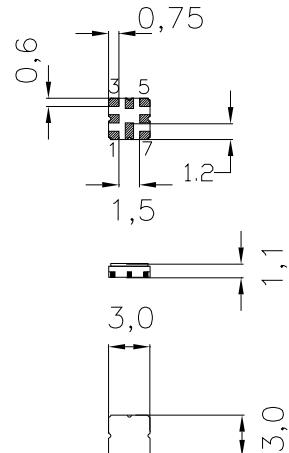
SMD ceramic package QCC8D

#### Features

- Very low loss RF filter
- Unbalanced to unbalanced or unbalanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**

#### Terminals

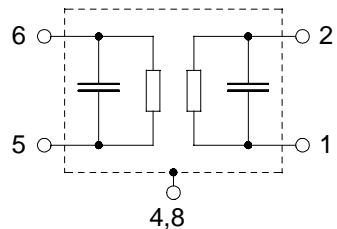
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

#### Pin configuration

- |      |                  |
|------|------------------|
| 6    | Input            |
| 5    | Input ground     |
| 2    | Output, balanced |
| 1    | Output, balanced |
| 3, 7 | To be grounded   |
| 4, 8 | Case - ground    |



Type	Ordering code	Marking and Package according to	Packing according to
B3824	B39192-B3824-U810	C61157-A7-A72-5	F61074-V8168-Z000

**Electrostatic Sensitive Device (ESD)**

#### Maximum ratings

Operable temperature range	$T$	-40/+85	°C	
Storage temperature range	$T_{stg}$	-40/+85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	3	dBm	

**SAW Components****B3824****Low-Loss Filter****1910 MHz****Data Sheet****Characteristics**

Operating temperature range:  $T_A = -5 \dots +85^\circ\text{C}$   
Terminating source impedance:  $Z_S = 50 \Omega$  unbalanced  
Terminating load impedance:  $Z_L = 50 \Omega$  balanced

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Nominal frequency</b>	$f_N$	—	1910	—	MHz
<b>Maximum insertion attenuation</b> 1900 MHz ... 1920 MHz	$\alpha_{\max}$	—	2,0	3,0	dB
<b>Amplitude ripple in passband (p-p)</b> over any 4 MHz within 1900 MHz ... 1920 MHz	$\Delta\alpha$	—	0,5	0,7	dB
<b>Group delay ripple in passband (p-p)</b> over any 4 MHz within 1900 MHz ... 1920 MHz	$\Delta\alpha$	—	2,5	4,0	ns
<b>Attenuation</b>	$\alpha_{\text{abs}}$				
100,0 MHz ... 1540 MHz		28	33	—	dB
1540 MHz ... 1810 MHz		33	37	—	dB
1810 MHz ... 1825 MHz		31	34	—	dB
2020 MHz ... 5000 MHz		15	20	—	dB
<b>VSWR</b> 1900 MHz ... 1920 MHz		—	1,8:1	2,4:1	
<b>Deviation from linear phase (p-p)</b> over any 4 MHz within 1900 MHz ... 1920 MHz		—	0,8	1,3	°



**SAW Components**

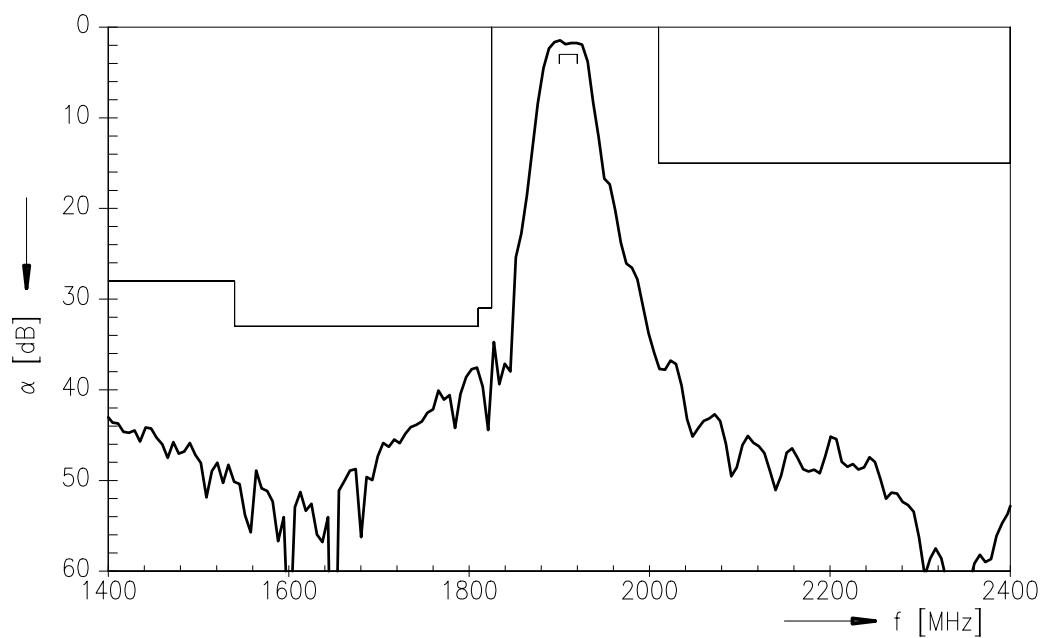
**B3824**

**Low-Loss Filter**

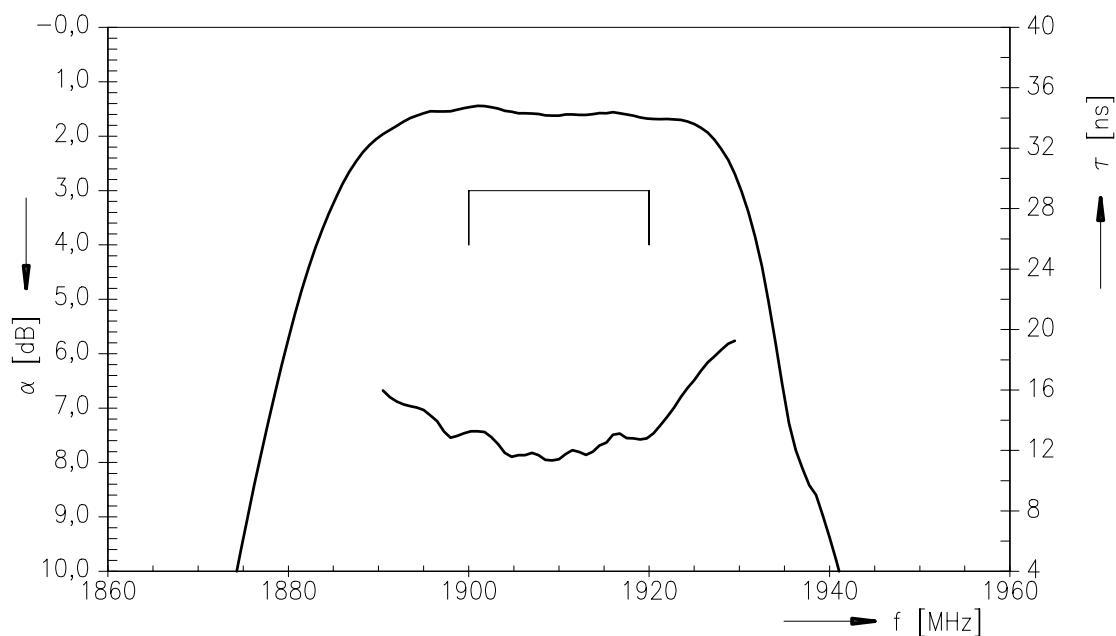
**1910 MHz**

**Data Sheet**

**Transfer function**



**Transfer function (pass band)**





**SAW Components**

**B3824**

**Low-Loss Filter**

**1910 MHz**

**Data Sheet**

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