

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[EPCOS \(TDK\)](#)  
[B39162B4059U810](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



## SAW Filter

### Series/Type: **B4059**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39162B4059U810	B39162B3521U410	2009-11-02	2010-02-28	2010-05-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).



# SAW Components

Data Sheet B4059





<b>SAW Components</b>	<b>B4059</b>
<b>Low Loss Filter for Mobile Communication</b>	<b>1575,42 MHz</b>
<b>Data Sheet</b>	<b>SMD</b>

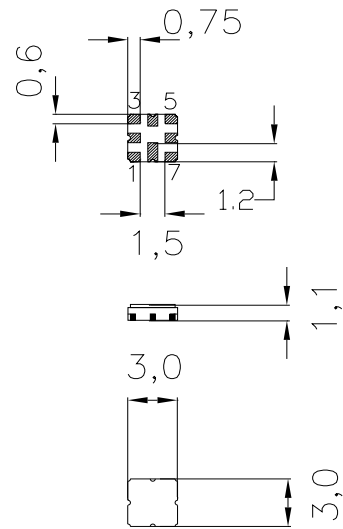
**Features**

- Low loss RF filter for GPS receivers
- Usable passband 2,4 MHz
- Low amplitude ripple
- Unbalanced to unbalanced operation
- Package for **Surface Mounted Technology (SMT)**

**Terminals**

- Ni, gold-plated

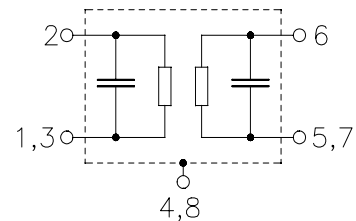
Ceramic package **QCC8D**



Dimensions in mm, approx. weight 0,037 g

**Pin configuration**

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



Type	Ordering code	Marking and Package according to	Packing according to
B4059	B39162-B4059-U810	C61157-A7-A68	F61074-V8089-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	$P_S$	0	dBm	source impedance 50 $\Omega$



<b>SAW Components</b>	<b>B4059</b>
<b>Low Loss Filter for Mobile Communication</b>	<b>1575,42 MHz</b>
Data Sheet	

**Characteristics**

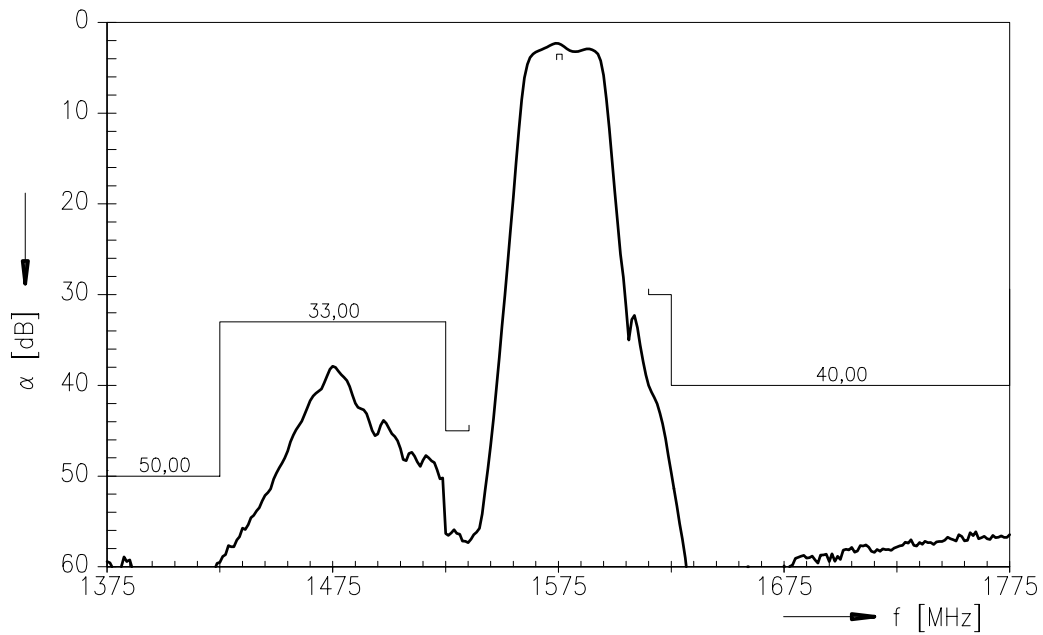
Operating temperature range:  $T = -40\text{ °C to }+85\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	1575,42	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	—	2,8	3,5	dB
1574,22 ... 1576,62 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,9	1,5	dB
1574,22 ... 1576,62 MHz					
<b>Attenuation</b>	$\alpha$				
0,00 ... 1425,00 MHz		50	55	—	dB
1425,00 ... 1525,00 MHz		33	36	—	dB
1525,00 ... 1535,42 MHz		45	48	—	dB
1615,00 ... 1625,00 MHz		30	37	—	dB
1625,00 ... 2200,00 MHz		40	45	—	dB
2200,00 ... 4000,00 MHz		30	38	—	dB

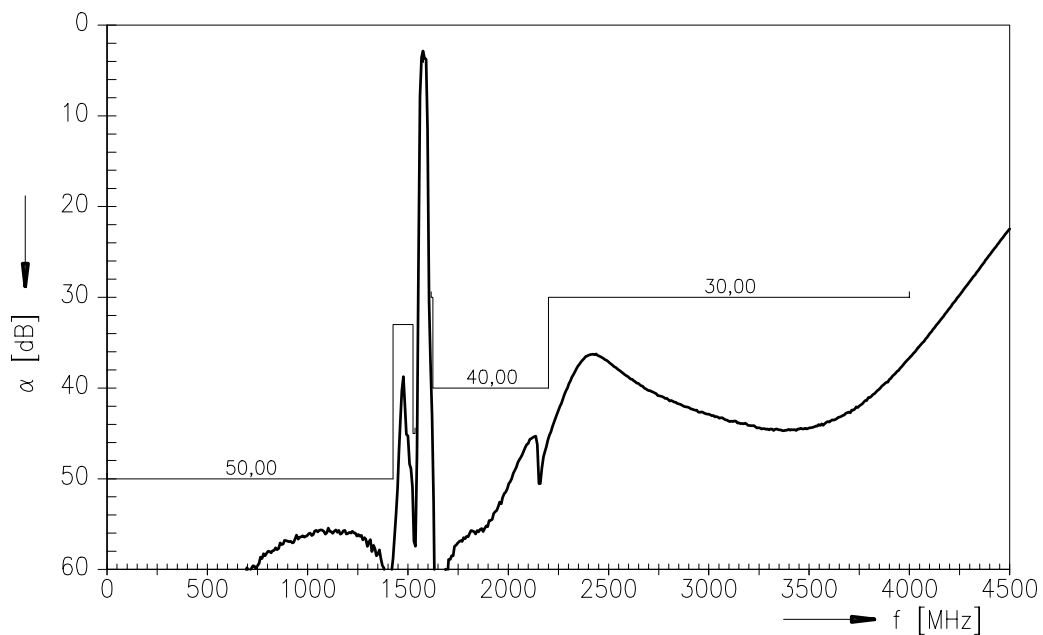


<b>SAW Components</b>	<b>B4059</b>
<b>Low Loss Filter for Mobile Communication</b>	<b>1575,42 MHz</b>
<b>Data Sheet</b>	<b>SMD</b>

**Transfer function**



**Transfer function (wide band)**





<b>SAW Components</b>	<b>B4059</b>
<b>Low Loss Filter for Mobile Communication</b>	<b>1575,42 MHz</b>
Data Sheet	

**Published by EPCOS AG**  
**Surface Acoustic Wave Components Division, SAW MC IS PD WL**  
**P.O. Box 80 17 09, D-81617 München**

© EPCOS AG 2001. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.