

RF360 Europe GmbH

A Qualcomm – TDK Joint Venture



## SAW Components

### SAW IF filter

Satellite radio

Series/type:	B1726
Ordering code:	B39261B1726H810
Date:	December 20, 2012
Version:	2.2

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# SAW Components

## SAW IF filter

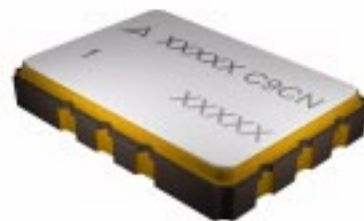
Satellite radio

<b>Series/type:</b>	<b>B1726</b>
<b>Ordering code:</b>	<b>B39261B1726H810</b>
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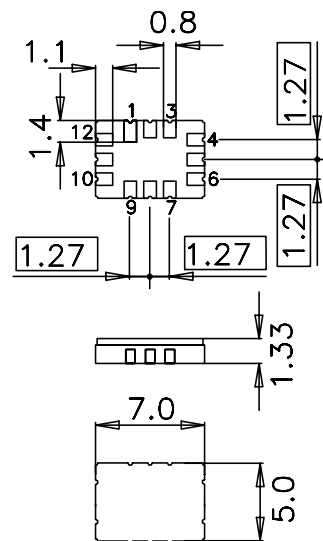
**Data sheet**

**Application**

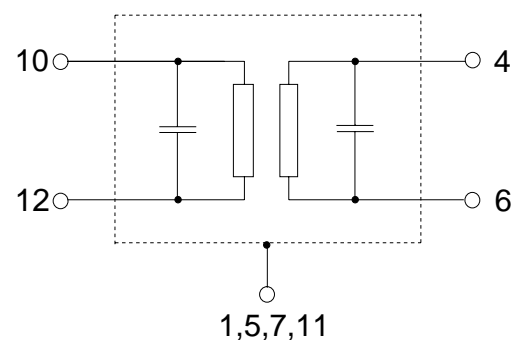
- IF filter for digital satellite radio
- Low insertion attenuation
- Constant group delay
- Unbalanced or balanced operation


**Features**

- Package size 7.0 x 5.0 x 1.33 mm<sup>3</sup>
- Package code QCC12E
- Maximum package height 1.48 mm
- RoHS compatible
- Approximate weight 0.25 g
- Ceramic package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- AEC-Q200 qualified component family
- **Electrostatic Sensitive Device (ESD)**


**Pin configuration**

- 10 Input
- 12 Input
- 4 Output
- 6 Output
- 1,5,7,11 Case – ground
- 2,3,8,9 To be grounded



**SAW Components**
**B1726**
**SAW IF filter**
**259.86 MHz**
**Data sheet**

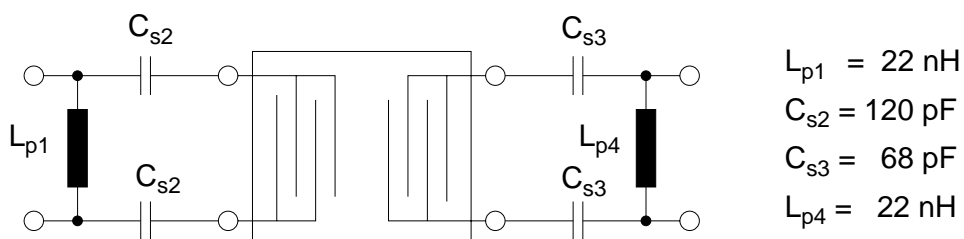
**Characteristics**

Temperature range for specification:	$T = -40\text{ °C} \dots 85\text{ °C}$
Terminating source impedance:	$Z_S = 150\ \Omega$ and matching network
Terminating load impedance:	$Z_L = 150\ \Omega$ and matching network

		min.	typ. @ 25 °C	max.	
<b>Nominal frequency</b>	$f_N$	—	259.86	—	MHz
<b>Minimum insertion attenuation</b>	$\alpha_{\min}$	—	14.5	15.5	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
253.61 ... 266.11 MHz		—	0.8	1.4	dB
253.61 ... 255.47 MHz		—	0.3	0.8	dB
255.47 ... 257.33 MHz		—	0.3	0.8	dB
257.33 ... 259.84 MHz		—	0.3	0.8	dB
259.89 ... 262.40 MHz		—	0.3	0.8	dB
262.40 ... 264.25 MHz		—	0.3	0.8	dB
264.25 ... 266.11 MHz		—	0.7	1.0	dB
<b>Pass bandwidth</b>					
$\alpha_{\text{rel}} \leq 1.5\text{ dB}$	$B_{1.5\text{dB}}$	12.5	14.1	15.0	MHz
$\alpha_{\text{rel}} \leq 3\text{ dB}$	$B_{3\text{dB}}$	14.4	14.9	15.4	MHz
$\alpha_{\text{rel}} \leq 15\text{ dB}$	$B_{15\text{dB}}$	—	17.4	—	MHz
<b>Attenuation (relative to <math>\alpha_{\min}</math>)</b>	$\alpha_{\text{rel}}$				
<b>Lower sidelobe</b>					
230.00 ... $f_N - 12.00\text{ MHz}$		34.0	36.0	—	dB
$f_N - 12.00 \dots f_N - 10.50\text{ MHz}$		32.0	36.0	—	dB
<b>Upper sidelobe</b>					
$f_N + 9.00 \dots f_N + 10.30\text{ MHz}$		13.0	16.0	—	dB
$f_N + 10.30 \dots f_N + 12.00\text{ MHz}$		34.0	36.0	—	dB
$f_N + 12.00 \dots 290.00\text{ MHz}$		35.0	37.0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
$f_N \pm 6.24\text{ MHz}$		—	50	70	ns
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-18	—	ppm/K

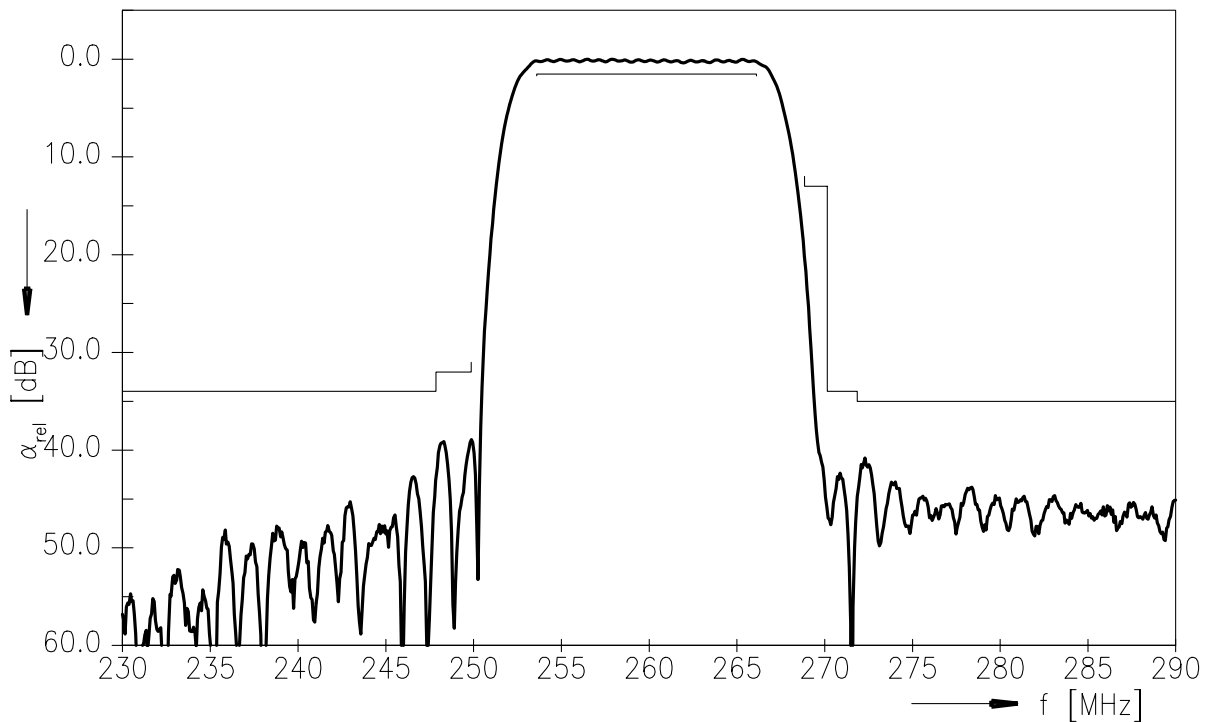
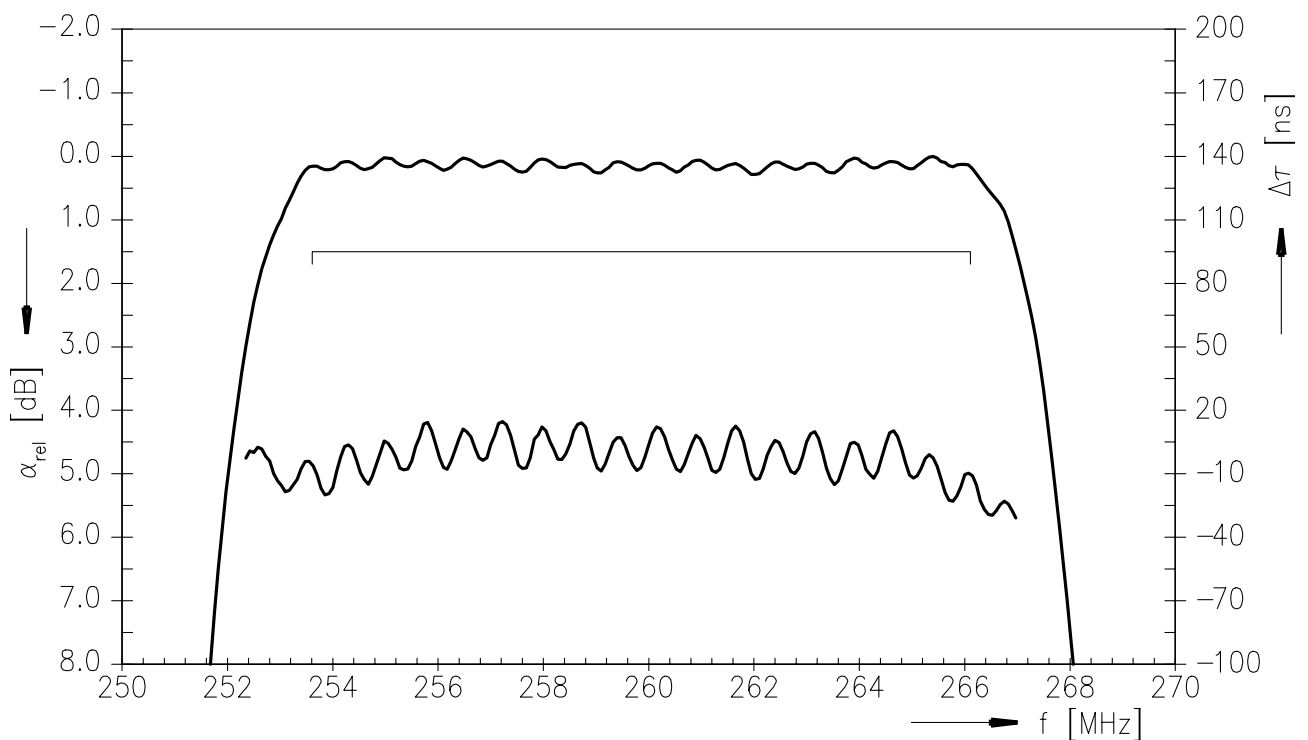
**SAW Components**
**B1726**
**SAW IF filter**
**259.86 MHz**

Data sheet


**Matching network (based on four port measurement, quality factors  $Q_L = 40$ ,  $Q_C = 90$ )**

**Maximum ratings**

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	T <sub>stg</sub>	-40 / +85	°C	
DC voltage	V <sub>DC</sub>	6	V	
Source power	P <sub>S</sub>	0	dBm	

**Data sheet**

**Transfer function**

**Transger function (passband)**


**SAW Components**
**B1726**
**SAW IF filter**
**259.86 MHz**

Data sheet


**References**

<b>Type</b>	B1726
<b>Ordering code</b>	B39261B1726H810
<b>Marking and package</b>	C61157-A7-A103
<b>Packaging</b>	F61074-V8170-Z000
<b>Date codes</b>	L_1126
<b>S-parameters</b>	B1726_NB.s4p See file header for port/pin assignment table.
<b>Soldering profile</b>	S_6001
<b>RoHS compatible</b>	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8 <sup>th</sup> , 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
<b>Matching coils</b>	See Inductor pdf-catalog <a href="http://www.tdk.co.jp/tefe02/coil.htm#aname1">http://www.tdk.co.jp/tefe02/coil.htm#aname1</a> and Data Library for circuit simulation <a href="http://www.tdk.co.jp/etvcl/index.htm">http://www.tdk.co.jp/etvcl/index.htm</a> for a large variety of matching coils.

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