



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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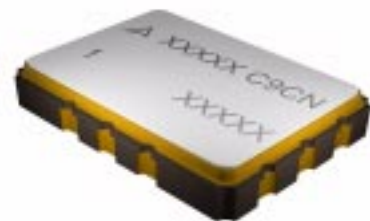
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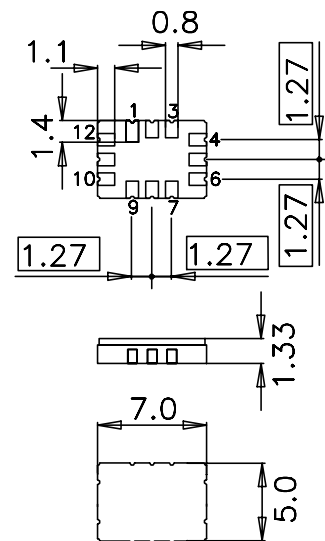
Data sheet


**Application**

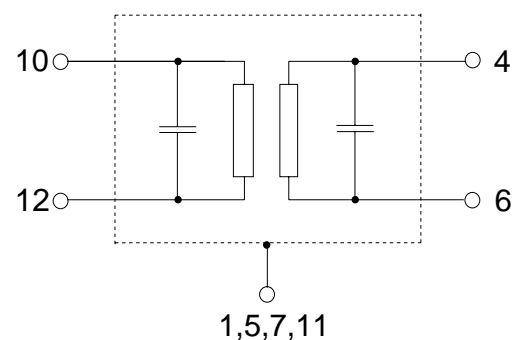
- IF filter for digital satellite radio
- Low insertion attenuation
- Constant group delay
- Unbalanced or balanced operation


**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



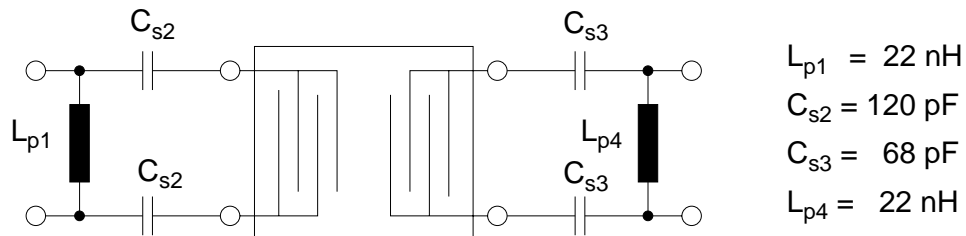
Data sheet


**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 ... $f_N - 12.00$ MHz		34.0	36.0	—	dB
$f_N - 12.00$ ... $f_N - 10.50$ MHz		32.0	36.0	—	dB
<b>Upper sidelobe</b>					
$f_N + 9.00$ ... $f_N + 10.30$ MHz		13.0	16.0	—	dB
$f_N + 10.30$ ... $f_N + 12.00$ MHz		34.0	36.0	—	dB
$f_N + 12.00$ ... 290.00 MHz		35.0	37.0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
$f_N \pm 6.24$ MHz		—	50	70	ns
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-18	—	ppm/K

Data sheet

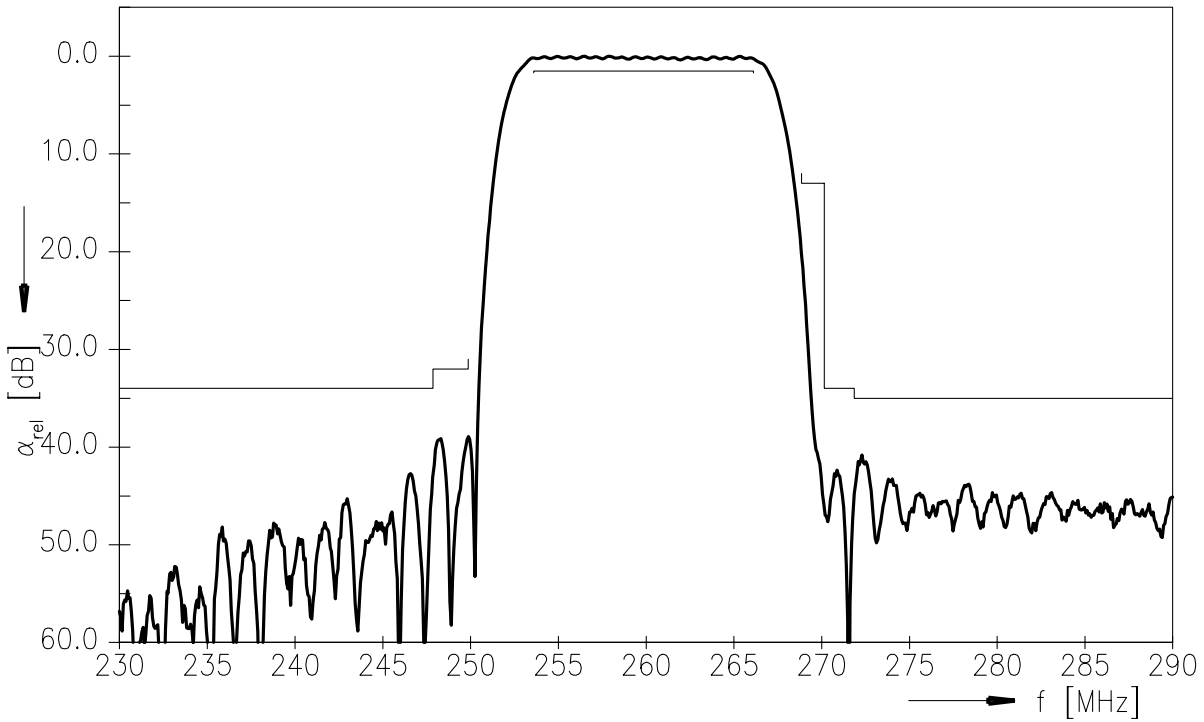

**Matching network (based on four port measurement, quality factors  $Q_L = 40$ ,  $Q_C = 90$ )**

**Maximum ratings**

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	$T_{\text{stg}}$	-40 / +85	°C	
DC voltage	$V_{\text{DC}}$	6	V	
Source power	$P_S$	0	dBm	

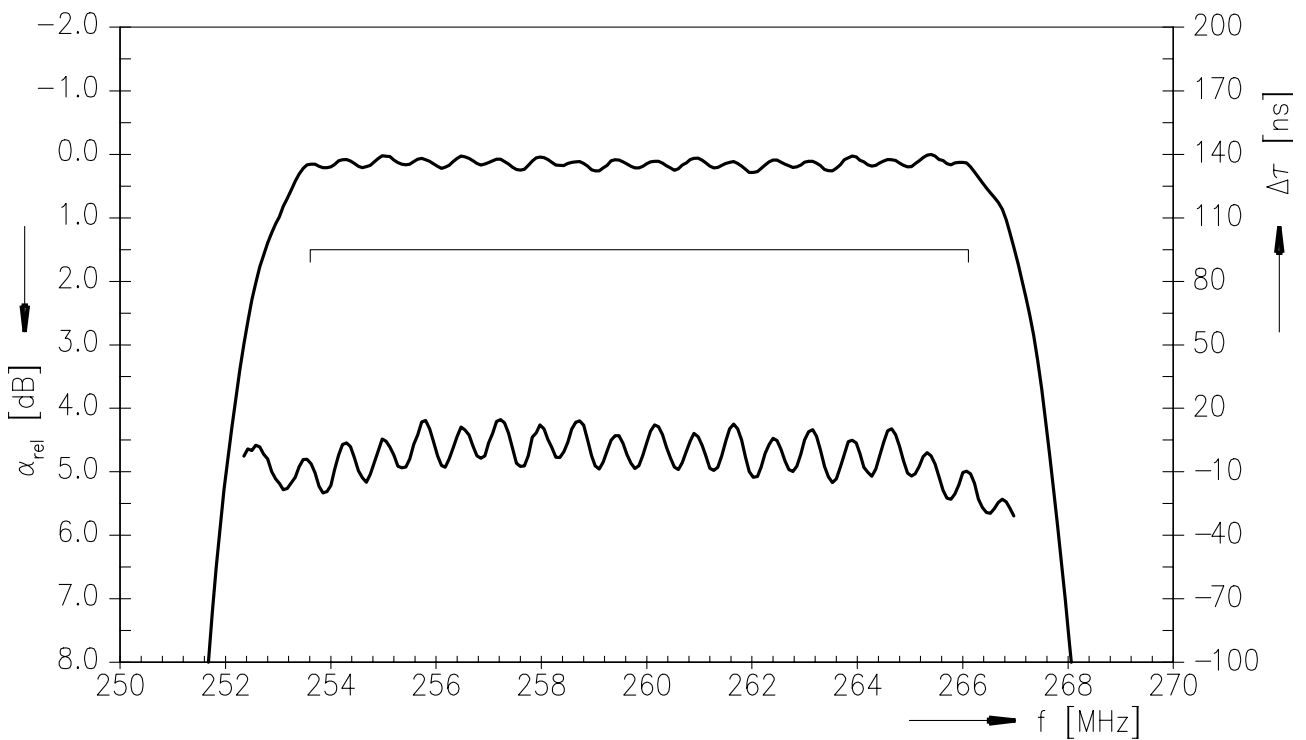
Data sheet



**Transfer function**



**Transfer function (passband)**




**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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