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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



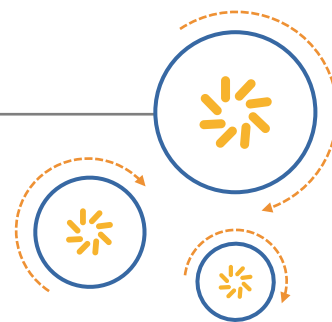
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RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

SAW filter

DCS 1800 band I

Series/type: B5125
Ordering code: B39172B5125U410

Date: July 26, 2010
Version: 2.0

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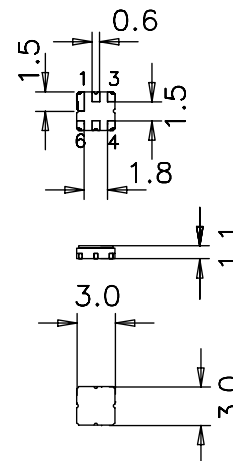
Data sheet

Application

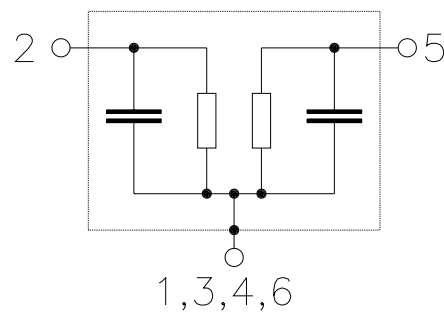
- DCS1800 band I filter
- Unbalanced to Unbalanced operation
- Low amplitude ripple
- Usable passband of 60 MHz
- No matching required for operation at 50 Ω


Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**


Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Case grounded



Data sheet


Characteristics

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

		min.	typ. @ 25 °C	max.	
Center frequency	f_N	—	1740.00	—	MHz
Minimum insertion attenuation	α_{\min}				
1710.0 ... 1770.0	MHz	—	1.2	—	dB
Maximum insertion attenuation	α_{\max}				
1710.0 ... 1770.0	MHz	—	2.2	3.2	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1710.0 ... 1770.0	MHz	—	1.1	2.1	dB
Input VSWR					
1710.0 ... 1770.0	MHz	—	1.8:1	2.1:1	
Output VSWR					
1710.0 ... 1770.0	MHz	—	1.8:1	2.1:1	
Relative attenuation (relative to α_{\min})	α_{rel}				
10.0 ... 1678.0	MHz	20.0	24.0	—	dB
1802.0 ... 1805.0	MHz	10.0	40.0	—	dB
1805.0 ... 1880.0	MHz	20.0	29.0	—	dB
1880.0 ... 3200.0	MHz	20.0	29.0	—	dB
3200.0 ... 5200.0	MHz	15.5	23.0	—	dB


Maximum ratings

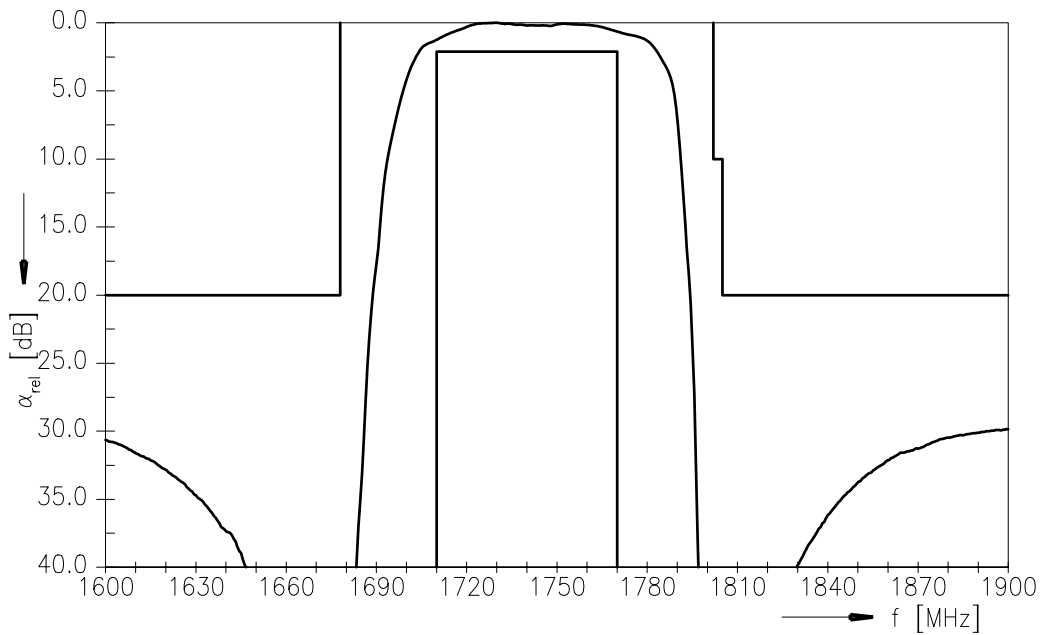
Operable temperature range	T	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power at 1710 ... 1770.0	P _{IN}	10	dBm	Continuous wave (10000 hours)

¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

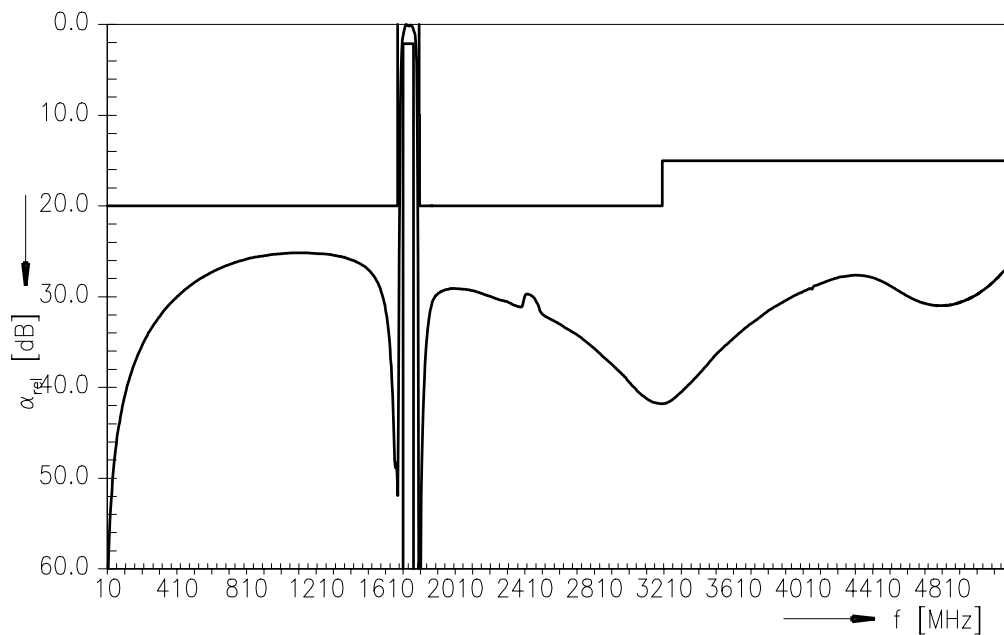
Data sheet



Transfer function (normalized)



Transfer function (wideband)

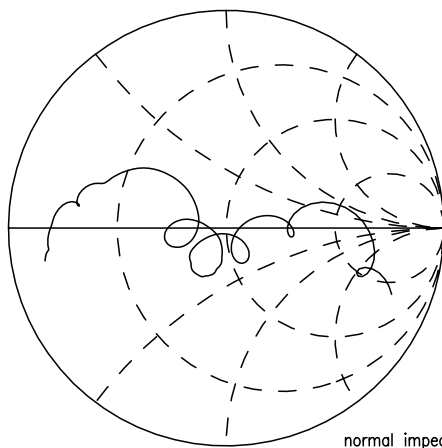


Data sheet

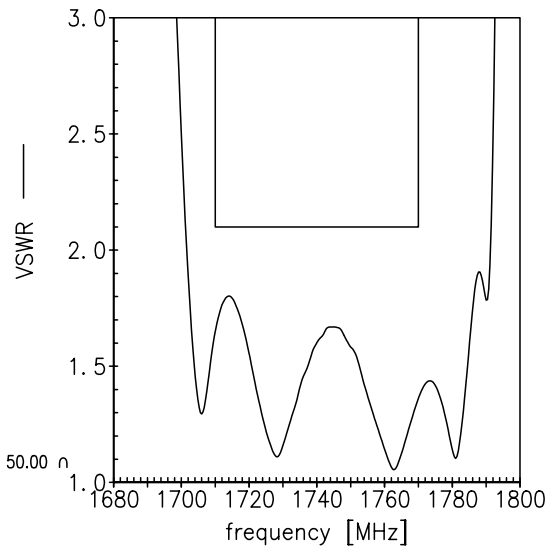


Smith charts

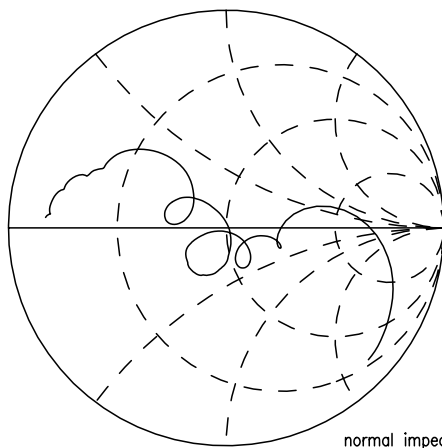
S₁₁ function



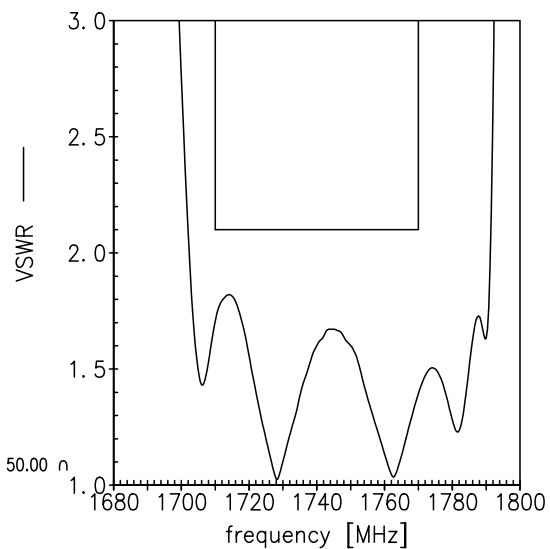
normal impedance: 50.00 Ω



S₂₂ function



normal impedance: 50.00 Ω



SAW Components	B5125
SAW filter	1740.00 MHz

Data sheet



References

Type	B5125
Ordering code	B39172B5125U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5125_NB.s2p, B5125_WB.s2p see file header for port/pin assignment table
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."
Matching coils	See http://www.tdk.co.jp/tefe02/coil.htm#aname1 http://www.tdk.co.jp/etvcl/index.htm for a large variety of matching coils.

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

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Please read *cautions and warnings and important notes* at the end of this document.

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