Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

EPCOS

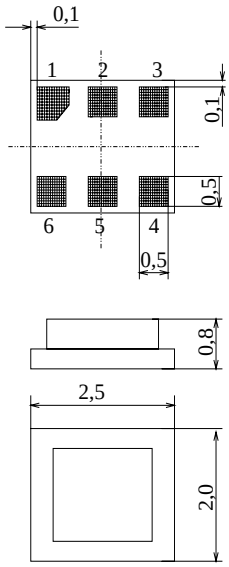
SAW Components

Data Sheet B7723

Chip sized SAW package DCS6I

Features

- Low-loss RF filter for mobile telephone GSM 850 systems, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Balanced to unbalanced operation
- Impedance transformation from 200 Ω to 50 Ω
- Ceramic package for **S**urface **M**ounted **T**echnology (**SMT**)



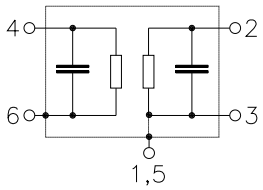
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,014g

Pin configuration

4, 6	Balanced input
2	Unbalanced ouput
1, 3, 5	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7723	B39841-B7723-C610	C61157-A7-A76	F61074-V8112-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 30 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	5	V	
ESD	V_{ESD}	50	V	
Input power max.	P_{IN}	15	dBm	Source impedance 200 Ω peak power of GSM 850 signal, duty cycle 1:4

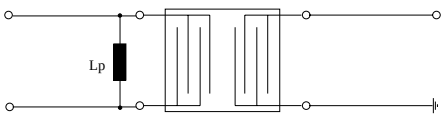
Data Sheet SMD

Characteristics

Operating temperature range: T = 25 ± 2˚C
Terminating source impedance: Z_S = 200 Ω // 56 nH (balanced)
Terminating load impedance: Z_L = 50 Ω (unbalanced)

		min.	typ.	max.	
Center frequency	f_C	—	836,5	—	MHz
Maximum insertion attenuation	α_{max}				
824,0 ... 849,0 MHz		—	2,1	2,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
824,0 ... 849,0 MHz		—	0,6	0,8	dB
Balanced input VSWR					
824,0 ... 849,0 MHz		—	1,7	2,0	
Unbalanced output VSWR					
824,0 ... 849,0 MHz		—	1,7	2,0	
Differential to Common mode Suppression	S_{sc12}				
0,1 ... 804,0 MHz		20	50	—	dB
824,0 ... 849,0 MHz		20	25	—	dB
869,0 ...6000,0 MHz		20	35	—	dB
Attenuation	α				
0,0 ... 800,0 MHz		42	54	—	dB
869,0 ... 894,0 MHz		27	30	—	dB
894,0 ...1000,0 MHz		30	40	—	dB
1000,0 ...3000,0 MHz		40	46	—	dB
3000,0 ...4000,0 MHz		30	36	—	dB
4000,0 ...6000,0 MHz		23	28	—	dB
Rx band suppression	α				
869,0 ... 894,0 MHz		27	30	—	dB

Test matching network



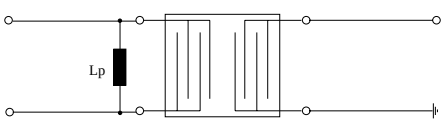
L_p = 56 nH

Characteristics

Operating temperature range: T = -30 to 85 ˚C
Terminating source impedance: Z_S = 200 Ω // 56 nH (balanced)
Terminating load impedance: Z_L = 50 Ω (unbalanced)

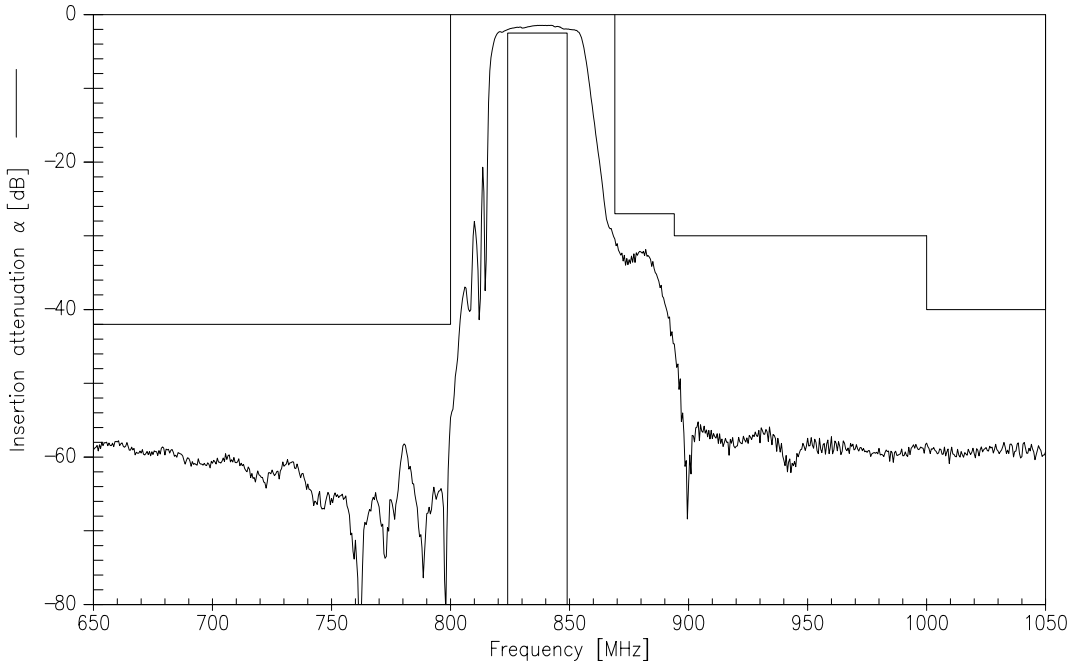
		min.	typ.	max.	
Center frequency	f_C	—	836,5	—	MHz
Maximum insertion attenuation	α_{max}				
824,0 ... 849,0 MHz		—	2,3	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
824,0 ... 849,0 MHz		—	0,8	1,0	dB
Balanced input VSWR					
824,0 ... 849,0 MHz		—	1,7	2,0	
Unbalanced output VSWR					
824,0 ... 849,0 MHz		—	1,7	2,0	
Differential to Common mode Suppression	S_{sc12}				
0,1 ... 804,0 MHz		20	50	—	dB
824,0 ... 849,0 MHz		20	25	—	dB
869,0 ...6000,0 MHz		20	35	—	dB
Attenuation	α				
0,0 ... 800,0 MHz		40	54	—	dB
869,0 ... 894,0 MHz		25	30	—	dB
894,0 ...1000,0 MHz		30	40	—	dB
1000,0 ...3000,0 MHz		40	46	—	dB
3000,0 ...4000,0 MHz		30	36	—	dB
4000,0 ...6000,0 MHz		23	28	—	dB
Rx band suppression	α				
869,0 ... 894,0 MHz		25	30	—	dB

Test matching network

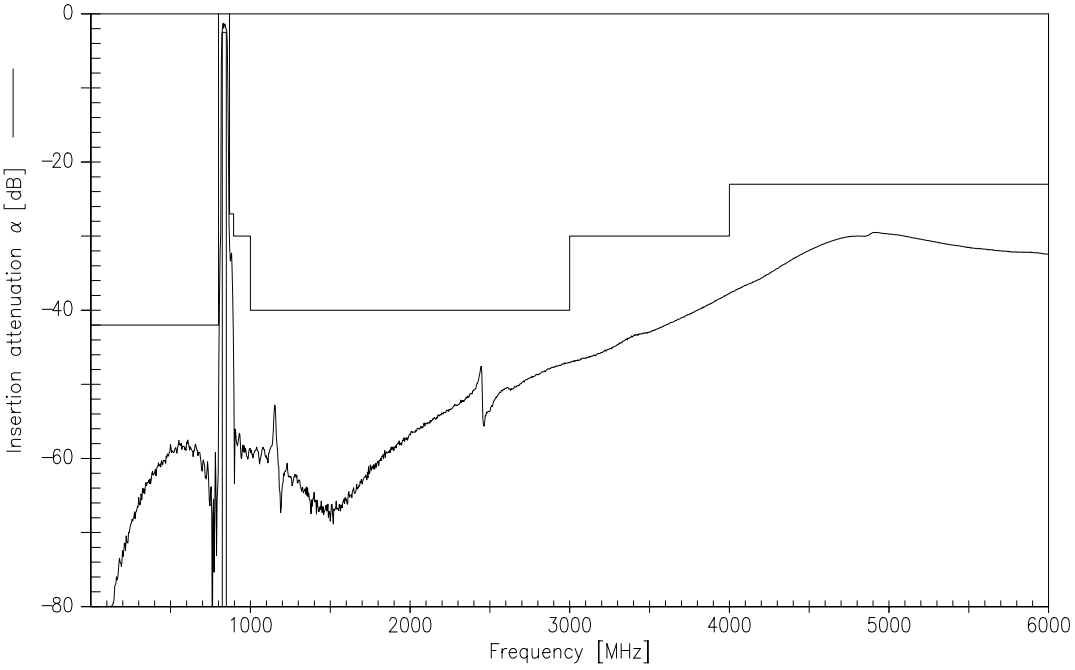


L_p = 56 nH

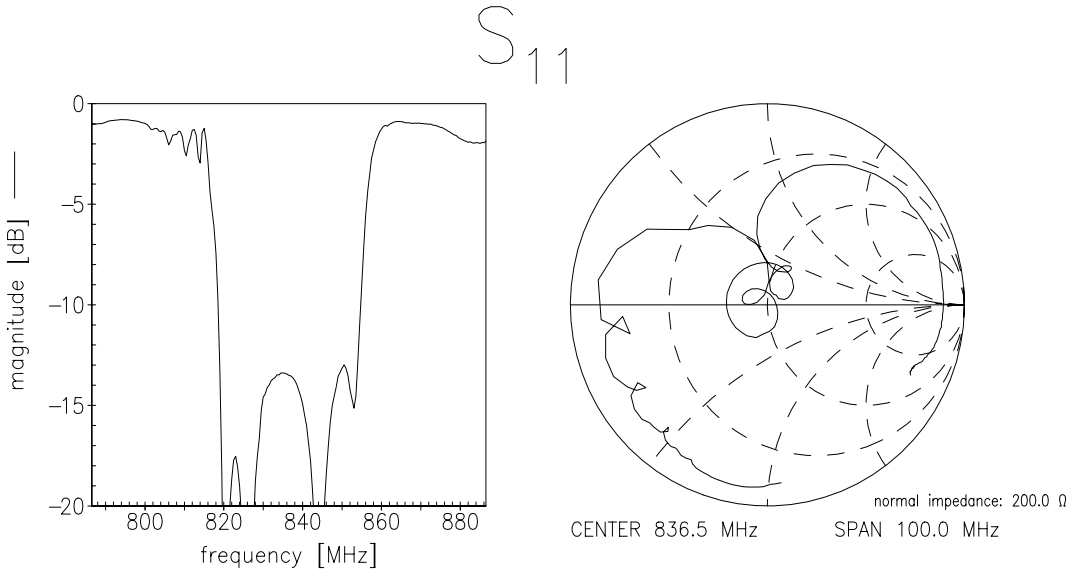
Transfer function (spec at 25˚C)

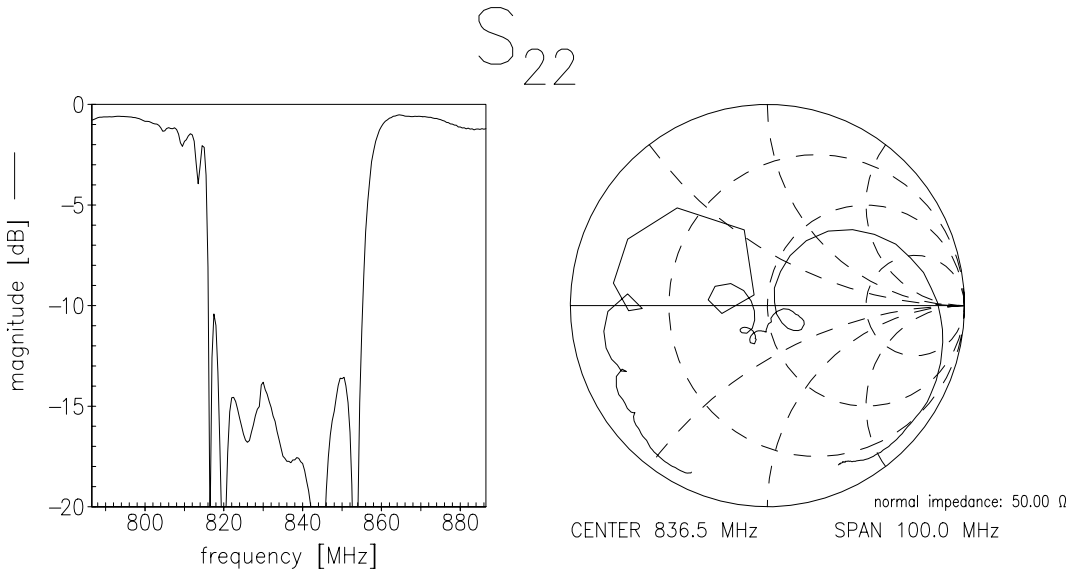


Transfer function (wideband)



Matching (measurement including calculated matching network; S11 is balanced input)





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

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

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.