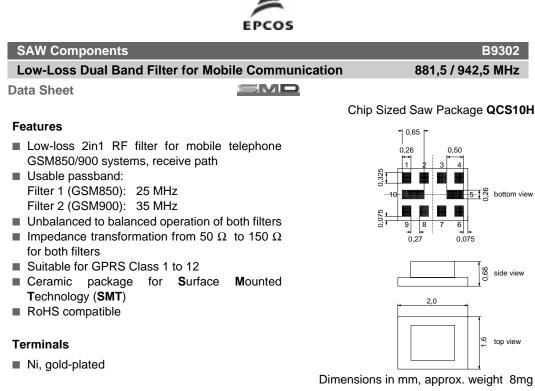


SAW Components

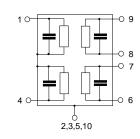
Data Sheet B9302





Pin configuration

1	Input [Filter 1]
4	Input [Filter 2]
6, 7	Output, balanced [Filter 2]
8, 9	Output, balanced [Filter 1]
2, 3, 5,10	Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B9302	B39941-B9302-G110	C61157-A7-A141	F61074-V8152-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 / + 85	°C	
Storage temperature range	T _{stg}	– 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD} *	100	V	Machine Model, 10 pulses
Input power at				
GSM850, GSM900,				
GSM1800, GSM1900				
Tx bands:				
Filter 1 (GSM850-Rx)	P _{IN}	15	dBm	effective power in the on-state,
Filter 2 (GSM900-Rx)	$P_{\rm IN}$	15	dBm	duty cycle 4:8

2

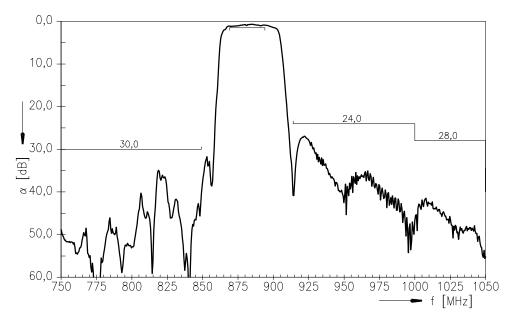
* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

EPCOS					
SAW Components					B9302
Low-Loss Dual Band Filter for Mobi	ile Communio	cation	88	1,5 / 942,	5 MHz
Data Sheet	SMD				
Characteristics Filter 1 (GSM850)					
Operating temperature range: Terminating source impedance: Terminating load impedance:	T = -20 $Z_{\rm S} = 50$ $Z_{\rm L} = 150$	Ω (unbalar	nced) ed) 82nH		
		min.	typ.	max.	
Center frequency	f _c	-	881,5		MHz
Maximum insertion attenuation 869,0 894,0	α _{max} MHz	_	1,2	1,8	dB
Amplitude ripple (p-p) 869,0 894,0	$\Delta \alpha$ MHz	_	0,5	1,0	dB
Input VSWR 869,0 894,0	MHz	_	1,8	2,1	
Output VSWR 869,0 894,0	MHz	_	1,7	2,0	
Output amplitude balance (S ₃₁ /S ₂₁) 869,0 894,0	MHz	-1,0	-0,5/+0,2	1,0	dB
Output phase balance $(\phi(S_{31})-\phi(S_{21})+18$ 869,0 894,0		-10	-3/+4	10	degree
Attenuation 10,0 447,0		45	55	_	dB
447,0 849,0		30	34	—	dB
914,01000,0		24	27	—	dB
1000,01738,0		28	37		dB
1738,01788,0 1788,06000,0		40	52		dB
1788,06000,0	MHz	35	46		dB

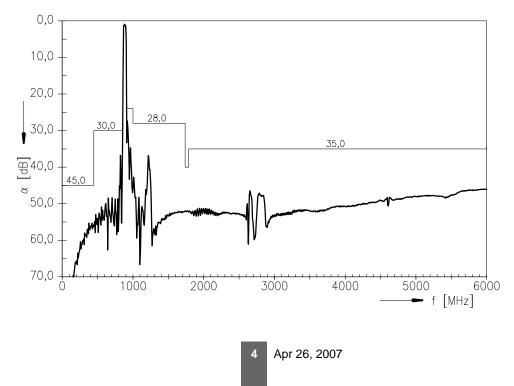




Transfer function Filter 1 (GSM850)



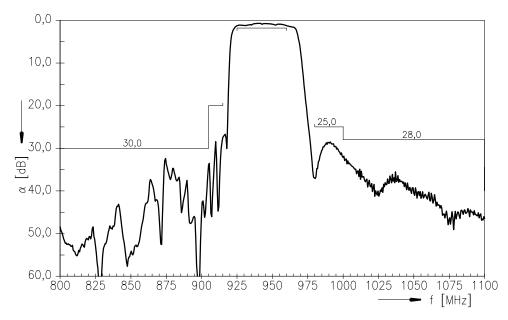
Transfer function Filter 1 (GSM850) - wideband



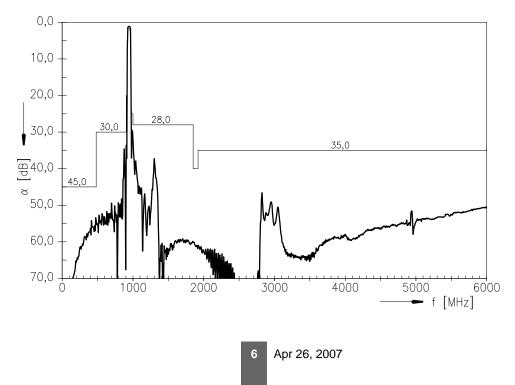
EPCOS							
SAW Components							B9302
Low-Loss Dual Band Filter for	or Mobile	e Com	munic	ation	88	1,5 / 942,	5 MHz
Data Sheet	i	SM					
Characteristics Filter 2 (GSM90)0)						
Operating temperature range: $T = -20 \text{ to } +85^{\circ}\text{C}$ Terminating source impedance: $Z_{\text{S}} = 50 \Omega$ (unbalanced)Terminating load impedance: $Z_{\text{L}} = 150 \Omega$ (balanced) 82nH							
				min.	typ.	max.	
Center frequency			f _c		942,5		MHz
Maximum insertion attenuation 925,0 …	. 960,0	MHz	α_{max}	_	1,6	2,1	dB
Amplitude ripple (p-p) 925,0	. 960,0	MHz	Δα	_	0,9	1,4	dB
Input VSWR 925,0	. 960,0	MHz		_	1,8	2,1	
Output VSWR 925,0	. 960.0	MHz			1,9	2,2	
Output amplitude balance ($ S_{31} ^{-1}$ 925,0 Output phase balance ($\phi(S_{31})$ - ϕ	S ₂₁) . 960,0 (S ₂₁)+180	MHz)°)		-1,1	-0,6/+0,6	1,1	dB
925,0	. 960,0	MHz		-10	-2/+1	10	degree
480,0 905,0 980,0 1000,0	. 480,0 . 905,0 . 915,0 .1000,0 .1850,0	MHz MHz MHz MHz MHz	α _{min}	45 30 20 25 28	54 33 27 28 32	 	dB dB dB dB dB
	.1920,0 .6000,0	MHz MHz		40 35	58 47		dB dB
	.0000,0			30	4/		UD



Transfer function Filter 2 (GSM900)



Transfer function Filter 2 (GSM900) - wideband



	ÉPCOS	
SAW Components		B9302
Low-Loss Dual Band	881,5 / 942,5 MHz	
Data Sheet	SMD	

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC P.O. Box 80 17 09, 81617 Munich, GERMANY

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