SAW filters for infrastructure systems

Series/Type: B3824

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39192B3824U810	B39192B5148U410	2013-03-08	2013-12-31	2014-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Data Sheet

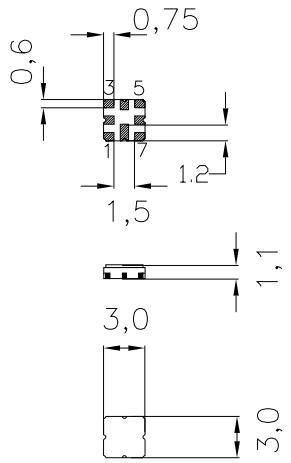
SMD ceramic package **QCC8D**

Features

- Very low loss RF filter
- Unbalanced to unbalanced or unbalanced to balanced operation
- Package for **S**urface **M**ounted **T**echnology **(SMT)**

Terminals

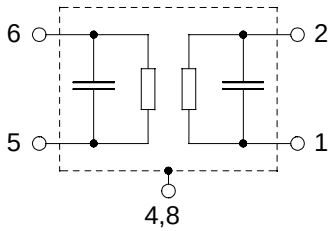
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

6	Input
5	Input ground
2	Output, balanced
1	Output, balanced
3, 7	To be grounded
4, 8	Case - ground



Type	Ordering code	Marking and Package according to	Packing according to
B3824	B39192-B3824-U810	C61157-A7-A72-5	F61074-V8168-Z000

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

Maximum ratings

Operable temperature range	T	– 40/+ 85	˚C
Storage temperature range	T_{stg}	– 40/+ 85	˚C
DC voltage	V_{DC}	0	V
Source power	P_s	3	dBm

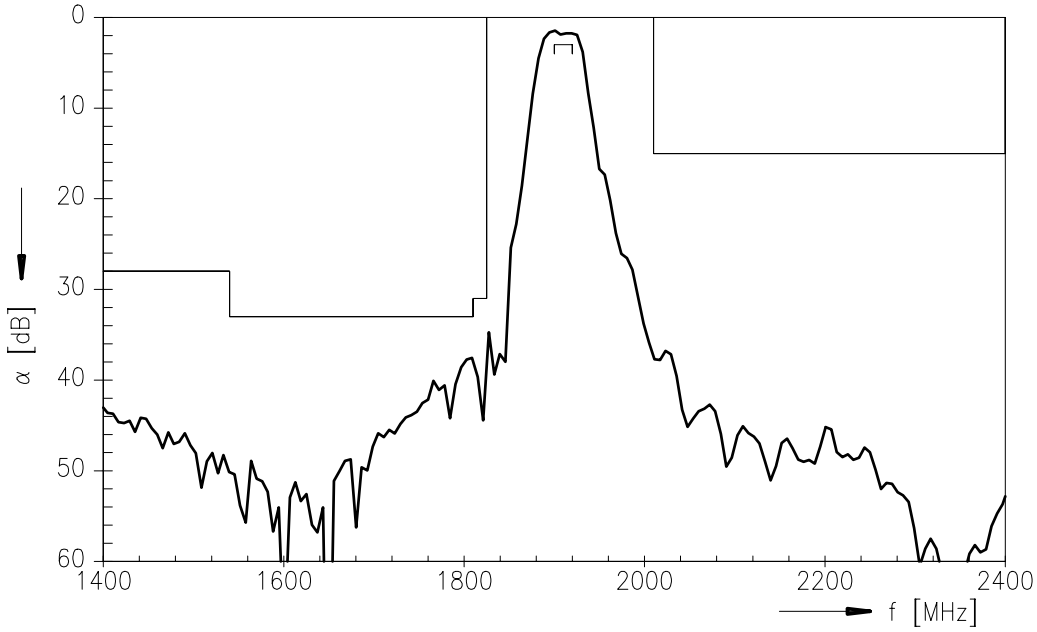
Data Sheet

Characteristics

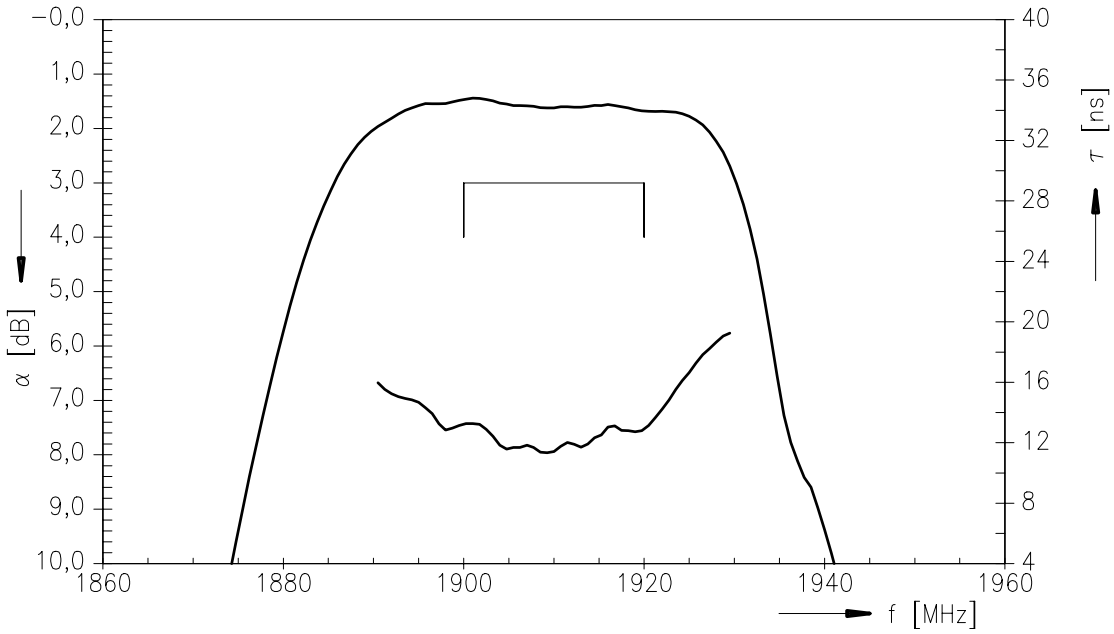
Operating temperature range: T_A = -5 ... +85 °C
Terminating source impedance: Z_S = 50 Ω unbalanced
Terminating load impedance: Z_L = 50 Ω balanced

		min.	typ.	max.	
Nominal frequency	f_N	—	1910	—	MHz
Maximum insertion attenuation	α_{max}				
1900 MHz ... 1920 MHz		—	2,0	3,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
over any 4 MHz within					
1900 MHz ... 1920 MHz		—	0,5	0,7	dB
Group delay ripple in passband (p-p)	$\Delta\alpha$				
over any 4 MHz within					
1900 MHz ... 1920 MHz		—	2,5	4,0	ns
Attenuation	α_{abs}				
100,0 MHz ... 1540 MHz		28	33	—	dB
1540 MHz ... 1810 MHz		33	37	—	dB
1810 MHz ... 1825 MHz		31	34	—	dB
2020 MHz ... 5000 MHz		15	20	—	dB
VSWR					
1900 MHz ... 1920 MHz		—	1,8:1	2,4:1	
Deviation from linear phase (p-p)					
over any 4 MHz within					
1900 MHz ... 1920 MHz		—	0,8	1,3	°

Transfer function



Transfer function (pass band)



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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.