EPCOS

SAW Components

Preliminary Data Sheet LE43A

Preliminary Data Sheet

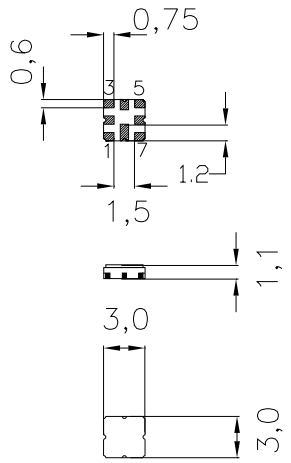
SMD ceramic package **QCC8D**

Features

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

Terminals

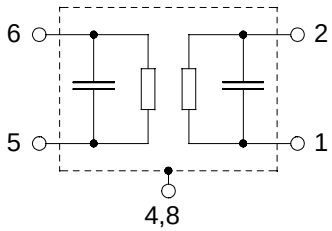
- Ni, gold-plated



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

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

Maximum ratings

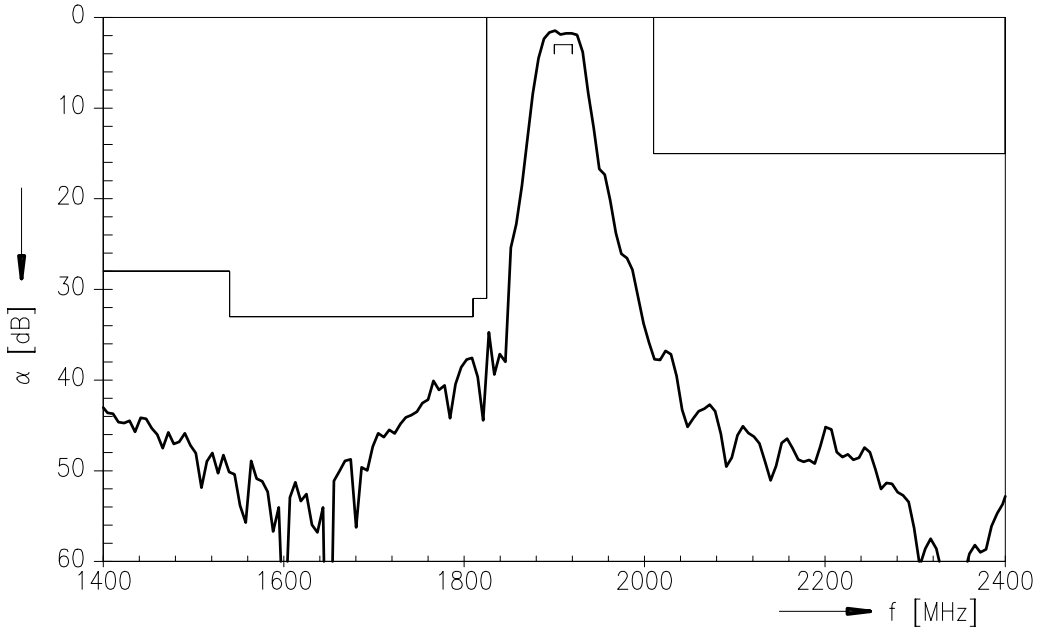
Operable temperature range	T	– 40/+ 85	˚C	
Storage temperature range	T_{stg}	– 40/+ 85	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_s	<3	dBm	
Min. damage level power		t.b.d.	dBm	

Characteristics

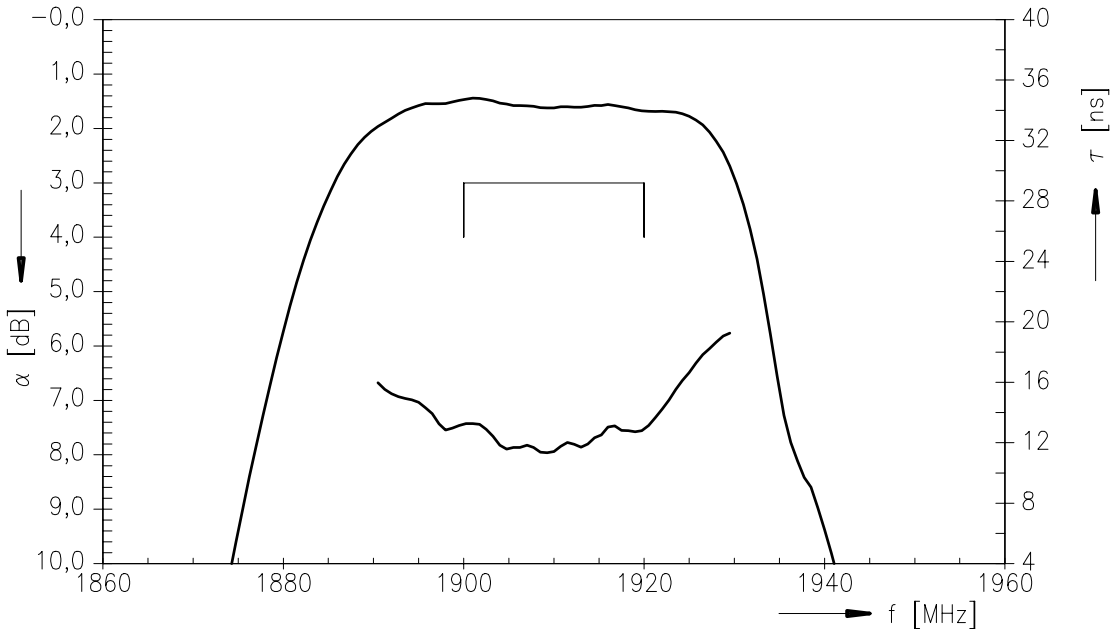
Operating temperature range: T_A = -5 ... +85 °C
Terminating source impedance: Z_S = 50 Ω unbalanced
Terminating load impedance: Z_L = 50 Ω balanced

		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 0	α				
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	1,0	°
Output amplitude imbalance					
1900 MHz ... 1920 MHz		-1,6	—	2,8	dB
Variation over any 4 MHz within					
1900 MHz ... 1920 MHz		—	0,5	0,8	dB
Output phase imbalance					
1900 MHz ... 1920 MHz		0	—	12,0	°
Variation over any 4 MHz within					
1900 MHz ... 1920 MHz		—	3,0	5,0	°

Transfer function



Transfer function (pass band)



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P.O. Box 80 17 09, D-81617 München

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