

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

EPCOS (TDK) B39820B3666Z710

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





SAW Components

Data Sheet B3666





Distributor of EPCOS (TDK): Excellent Integrated System Limited Datasheet of B39820B3666Z710 - FILTER SAW 82.2MHZ LOWLOSS SMD



SAW Components	B3666
Low-Loss Filter	82,20 MHz
Data Sheet	

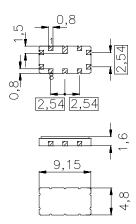
Ceramic SMD package QCC10B

Features

- Low-loss IF filter
- Ceramic SMD package
- Balanced or unbalanced operation possible
- Low insertion attenuation, high selectivity

Terminals

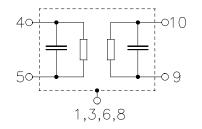
Gold-plated



Dimensions in mm, approx. weight 0,23 g

Pin configuration

4, 5	Input
9,10	Output
1,3,6,8	Case ground
2,7	To be grounded



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B3666	B39820-B3666-Z710	C61157-A7-A49	F61064-V8035-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 30/+ 80	°C
Storage temperature range	T _{stg}	- 40/+ 85	°C
DC voltage	V _{DC}	0	V
Source power	Ps	10	dBm

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SAW Components					B3666
Low-Loss Filter				82,2	0 MHz
Data Sheet					
Characteristics					
•	= -10 .				
			ed and mate		
Terminating load impedance: Z_{L}	= 50	2 unbalance	ed and mate	ching netw	vork
		min.	typ.	max.	
Nominal frequency	f _N	—	82,2		MHz
Minimum insertion loss	$lpha_{min}$	_	3,7	5,0	dB
3dB bandwidth		30	50	_	kHz
Amplitude variation (p-p)	Δα				
f _N - 15 kHz f _N + 15 kHz		_	0,9	3,0	dB
Amplitude ripple (peak to adjacent valley)	$\Delta \alpha$				
f _N - 15 kHz f _N + 15 kHz		-	0,0	1,5	dB
Absolute group delay $(at f_N)$	τ	_	16	—	μs
Group delay ripple (p-p)	$\Delta \tau$				
f _N - 11 kHz f _N + 11 kHz		-	1,6	10	μs
Relative attenuation (relative to α_{min})	α_{rel}				
f _N – 1000 kHz f _N – 925 kHz		40	70	—	dB
f _N – 925 kHz f _N – 885 kHz		70	75	—	dB
f _N – 885 kHz f _N – 700 kHz f _N – 700 kHz f _N – 400 kHz		40 30	70 65	_	dB dB
$f_N = 400 \text{ kHz} \dots f_N = 400 \text{ kHz}$ $f_N = 400 \text{ kHz} \dots f_N = 120 \text{ kHz}$		40	60	_	dB
$f_N = 400 \text{ kHz} \dots f_N = 120 \text{ kHz}$ $f_N = 120 \text{ kHz} \dots f_N = 60 \text{ kHz}$		20	34	_	dB
$f_N + 60 \text{ kHz} \dots f_N + 120 \text{ kHz}$		20	29	_	dB
f _N + 120 kHz f _N + 150 kHz		40	57	—	dB
f_{N} + 150 kHz f_{N} + 400 kHz		30	55	—	dB
f_{N} + 400 kHz f_{N} + 1000 kHz		40	55	—	dB
Intermodulation distortion					
Intermodulation in the composit signal by $f_N \pm 6$	0		_	-90	dB
kHz and $f_N \pm 120$ kHz, each of -20 dBm					
Temperature coefficient of frequency 1)	TC _f	_	- 0,036		ppm/K ²
Turnover temperature	T_0		30	_	°C

¹⁾ Temperature dependance of f_c : $f_c(T) = f_c(T_0)(1 + TC_f(T - T_0)^2)$

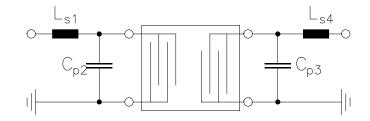
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Matching network (element values depend on pcb layout)

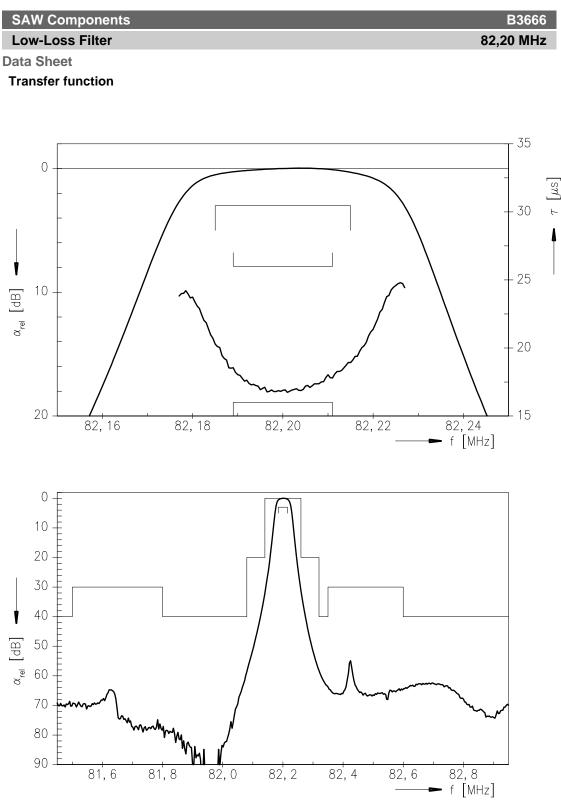


 $L_{s1} = 470 \text{ nH}$ $C_{p2} = 3,9 \text{ pF}$ $C_{p3} = 3,9 \text{ pF}$ $L_{s4} = 470 \text{ nH}$

Δ







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SAW Components

Low-Loss Filter

Data Sheet

B3666 82,20 MHz

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