



B4035 931,0 MHz 886,0 MHz

Ceramic package QCC8B

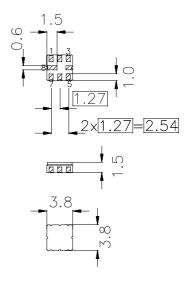
Data Sheet

Features

- Compact RF duplexer for cordless telephone CT1+
- ullet No matching network required for operation at 50 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

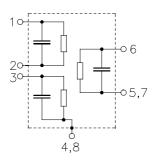
Ni, gold-plated



Dimensions in mm, approx. weight 0,07 g

Pin configuration

6	Ant
1	Port 1 (Rx/Tx)
3	Port 2 (Tx/Rx)
5, 7	Ant - ground
2	Port 1 - ground
4. 8	Case / Port 2 - ground



Туре	Ordering code	Marking and Package according to	Packing according to
B4035	B39931-B4035-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	0 /+ 60	°C
Storage temperature range	$T_{\rm stg}$	- 40/ + 85	°C
DC voltage	$V_{\rm DC}$	3	V
Input power	P_{IN}	17	dBm

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Characteristics channel 1 (Port 1 - Ant)

Operating temperature range T=0 to +60 °C ANT term. impedance $Z_{\rm Ant}=50~\Omega$ Port 1 term. impedance $Z_{\rm Port~1}=50~\Omega$ Port 2 term. impedance $Z_{\rm Port~2}=50~\Omega$

		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	_	931,0	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
930,00 932,00 MHz		_	3,6	4,2	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
930,00 932,00 MHz		_	0,3	0,8	dB
Absolute attenuation	α				
0,30 859,00 MHz		52	57	_	dB
859,00 885,00 MHz		40	45	_	dB
885,00 889,40 MHz		43	50	_	dB
889,40 910,60 MHz		30	35	_	dB
910,60 921,30 MHz		5	21	_	dB
940,70 943,00 MHz		5	19	_	dB
943,00 949,00 MHz		17	31	_	dB
949,00 972,80 MHz		30	38	_	dB
972,80 1100,00 MHz		52	55	_	dB
1100,00 1350,00 MHz		41	49	_	dB
1350,00 2000,00 MHz		20	25	_	dB
2000,00 3000,00 MHz		_	9	_	dB



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Data Sheet

Characteristics channel 2 (Port 2 - Ant)

 $\begin{array}{lll} \mbox{Operating temperature range T} &= & 0 \mbox{ to +60 °C} \\ \mbox{ANT term. impedance} & Z_{\rm Ant} &= & 50 \ \Omega \\ \mbox{Port 1 term. impedance} & Z_{\rm Port 1} = & 50 \ \Omega \\ \mbox{Port 2 term. impedance} & Z_{\rm Port 2} = & 50 \ \Omega \\ \end{array}$

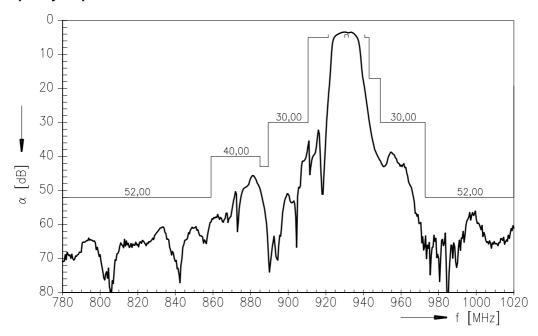
	min.	typ.	max.	
Center frequency f _c	-	886,0	_	MHz
$\begin{tabular}{lll} \textbf{Maximum insertion attenuation} & α \\ \hline \end{tabular}$	^t max			
885,00 887,00 MHz	_	3,4	4,0	dB
Amplitude ripple (p-p) Δ	ια			
885,00 887,00 MHz	_	0,3	0,8	dB
Absolute attenuation α	ι			
0,30 845,00 MHz	50	54	_	dB
845,00 865,60 MHz	33	38	_	dB
865,60 876,30 MHz	5	23	_	dB
895,70 904,00 MHz	6	22	_	dB
904,00 927,80 MHz	32	37	_	dB
927,80 930,00 MHz	35	49	_	dB
930,00 951,00 MHz	45	51	_	dB
951,00 1100,00 MHz	48	52	_	dB
1100,00 1350,00 MHz	40	48	_	dB
1350,00 2000,00 MHz	25	31	_	dB
2000,00 3000,00 MHz	10	15	_	dB



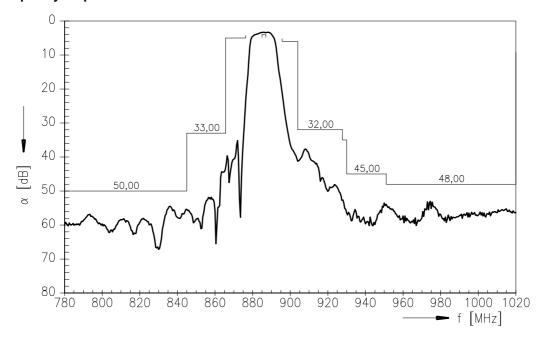
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Data Sheet

Frequency response channel 1:



Frequency response channel 2:

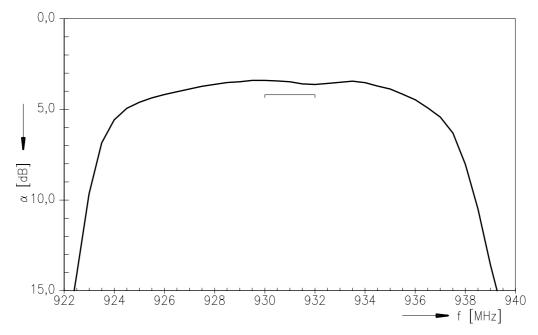




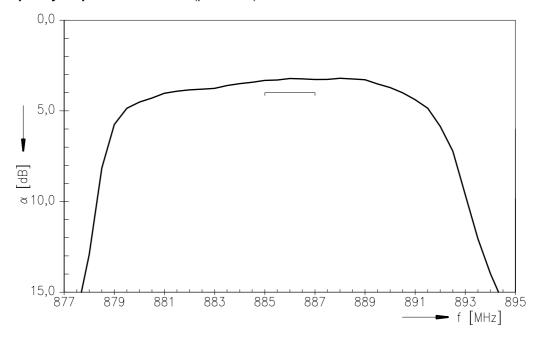
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Data Sheet

Frequency response channel 1: (passband)



Frequency response channel 2: (passband)

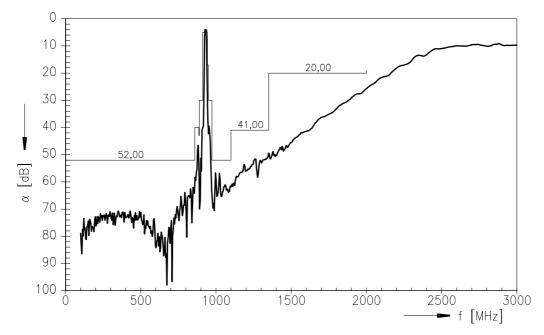




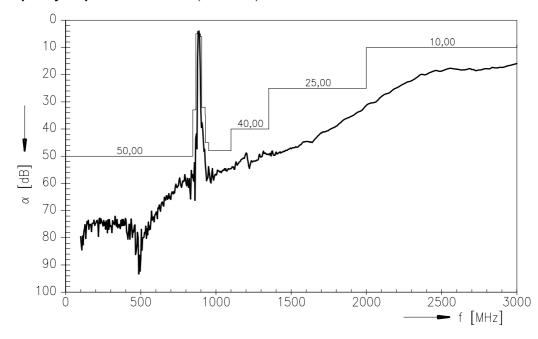
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Data Sheet

Frequency response channel 1: (wideband)



Frequency response channel 2: (wideband)



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Isolation between channel 1 and channel 2

 $\begin{array}{lll} \text{Operating temperature range} & T & = & 0 \text{ to } +60 \text{ °C} \\ \text{Ant term. impedance} & Z_{\text{Ant}} & = & 50 \text{ }\Omega \\ \text{Port 1 term. impedance} & Z_{\text{Port 1}} = & 50 \text{ }\Omega \\ \text{Port 2 term. impedance} & Z_{\text{Port 2}} = & 50 \text{ }\Omega \end{array}$

		min.	typ.	max.	
Absolute attenuation	α				
930,0	0 932,00 MHz	45	59		dB
885,0	0 887,00 MHz	40	50	_	dB

Isolation between channel 1 and channel 2:

