



SAW Components

SAW RF low loss filter

DMB, CMMB

Series/type:	B8761
Ordering code:	B39262-B8761-F210
Date:	February 02, 2009
Version:	2.1

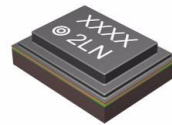


Data sheet



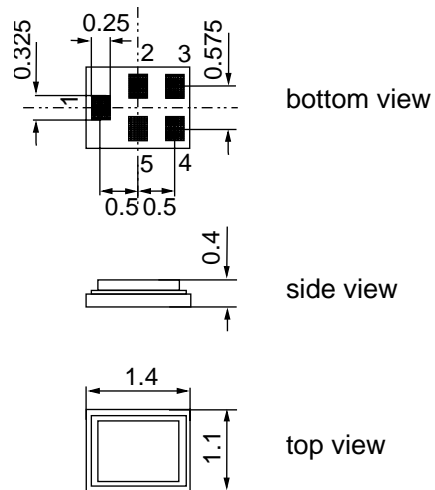
Application

- Low loss RF band pass filter for DMB and CMMB
- Low insertion loss
- Low amplitude and group delay ripple
- Usable passband 30 MHz
- Impedance at input and output 50 Ω
- Unbalanced to unbalanced operation



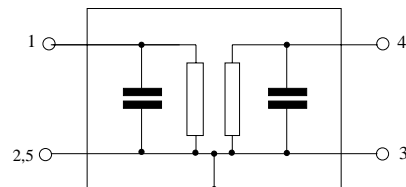
Features

- Package size 1.4 × 1.1 × 0.4 mm³
- Maximum height of 0.45 mm
- Package code QCS5M
- RoHS compatible
- Approximate weight 0.003 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**



Pin configuration

- 1 Input unbalanced
- 4 Output unbalanced
- 3 To be grounded
- 2,5 Case ground





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2647.50 MHz

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Characteristics

Temperature range for specification: T = -30 °C to +85 °C
 Terminating source impedance: Z_S = 50 Ω
 Terminating load impedance: Z_L = 50 Ω

		min.	typ. @ 25 °C	max.	
Nominal frequency	f _N	—	2647.50	—	MHz
Maximum insertion attenuation	α _{max}				
2630.00 ... 2655.00 MHz		—	1.8	2.5	dB
2632.50 ... 2652.50 MHz		—	1.8	2.5	dB
2635.00 ... 2660.00 MHz		—	1.8	2.5	dB
Amplitude ripple (p-p)	Δα				
2630.00 ... 2655.00 MHz		—	0.5	1.0	dB
2632.50 ... 2652.50 MHz		—	0.5	1.0	dB
2635.00 ... 2660.00 MHz		—	0.5	1.0	dB
Input VSWR					
2630.00 ... 2655.00 MHz		—	1.8	2.0	
2632.50 ... 2652.50 MHz		—	1.8	2.0	
2635.00 ... 2660.00 MHz		—	1.8	2.0	
Output VSWR					
2630.00 ... 2655.00 MHz		—	1.7	2.0	
2632.50 ... 2652.50 MHz		—	1.7	2.0	
2635.00 ... 2660.00 MHz		—	1.7	2.0	
Attenuation	α				
1710.00 ... 1785.00 MHz		35.0	38.0	—	dB
1920.00 ... 1980.00 MHz		35.0	38.0	—	dB
2400.00 ... 2483.50 MHz		32.0	36.0	—	dB
2500.00 ... 2570.00 MHz		20.0	26.0	—	dB
2780.00 ... 3000.00 MHz		30.0	34.0	—	dB
Group delay ripple (p-p)	Δτ				
2630.00 ... 2655.00 MHz		—	3	—	ns
2632.50 ... 2652.50 MHz		—	3	—	ns
2635.00 ... 2660.00 MHz		—	3	—	ns



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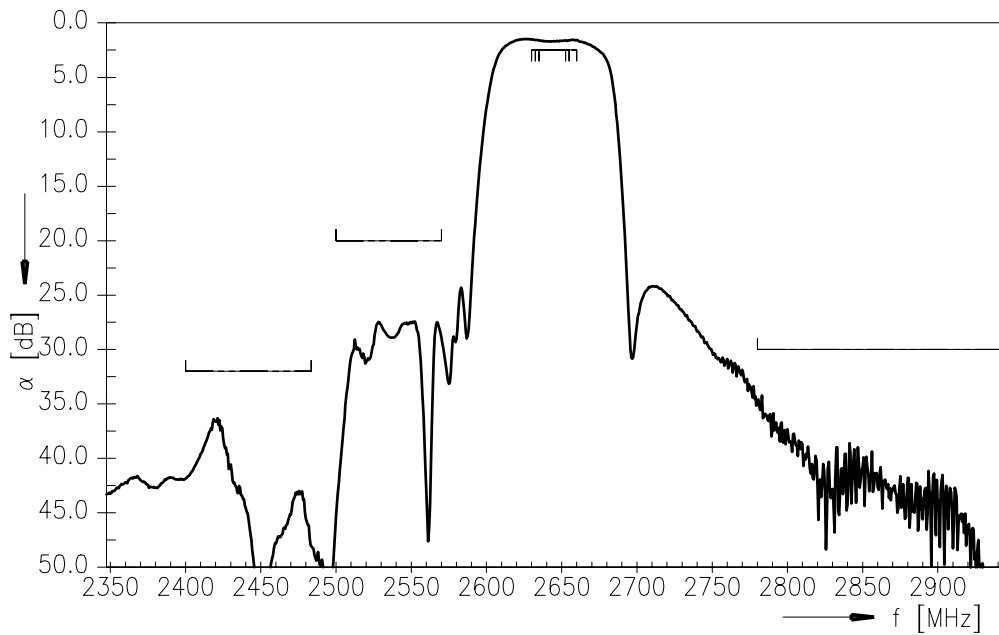
Maximum ratings

Operable temperature range	T	-30/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	3	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 10 pulses
Input power at 2630.00 ... 2655.00 MHz				
2632.50 ... 2652.50 MHz	P _{IN}	10	dBm	source impedance 50 Ω
2635.00 ... 2660.00 MHz				

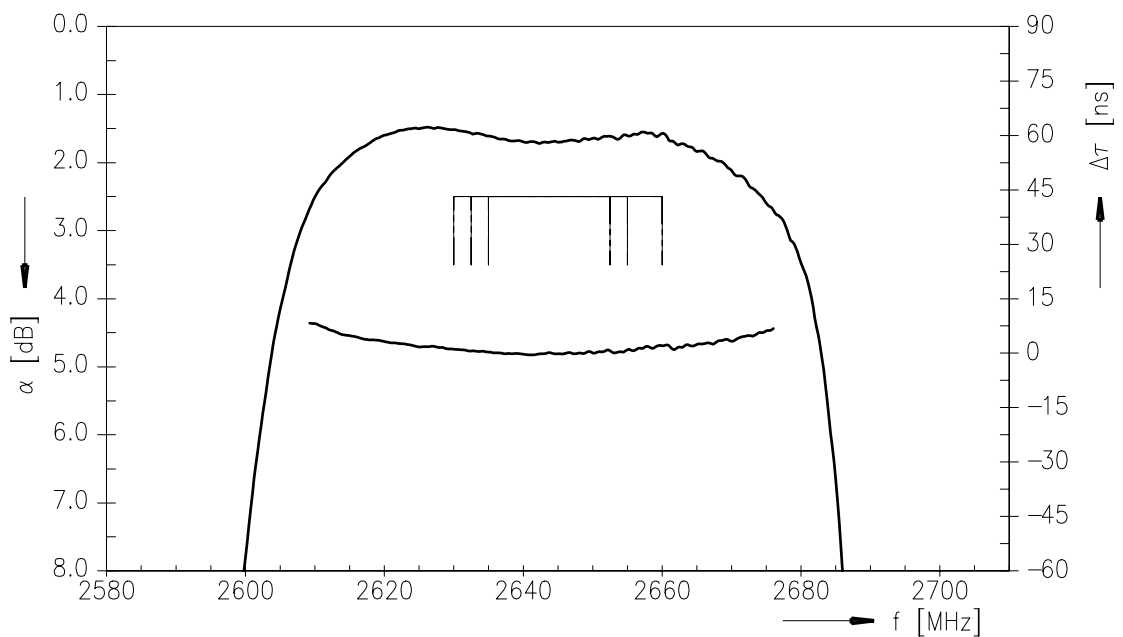
¹⁾ according to JESD22-A115A (machine model), 10 negative & 10 positive pulses.



Transfer function



Transfer function (pass band)





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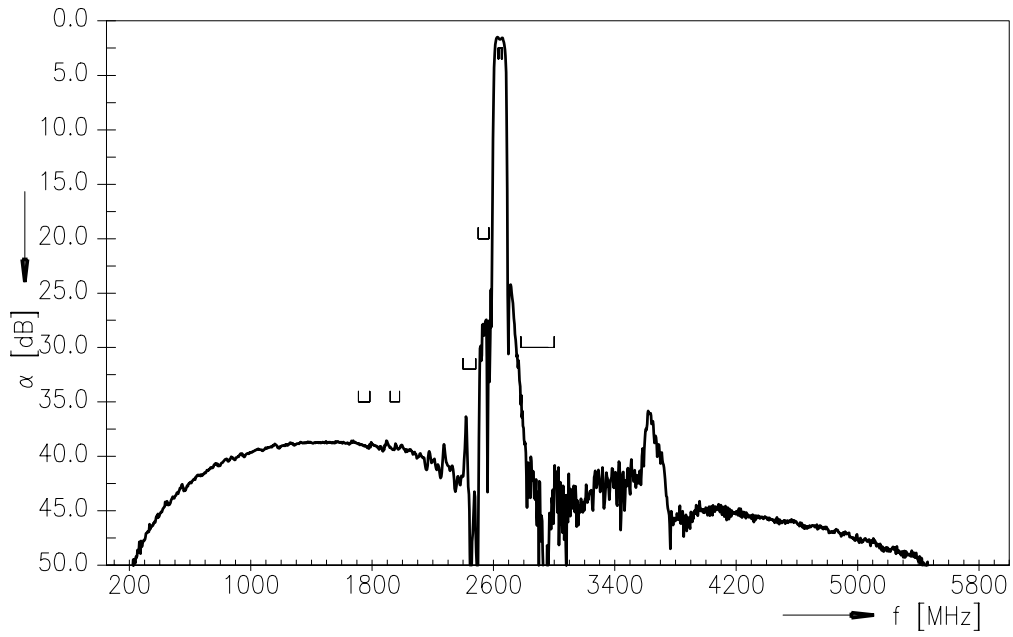
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Data sheet



Transfer function (wide band)



Please read *cautions and warnings and important notes* at the end of this document.

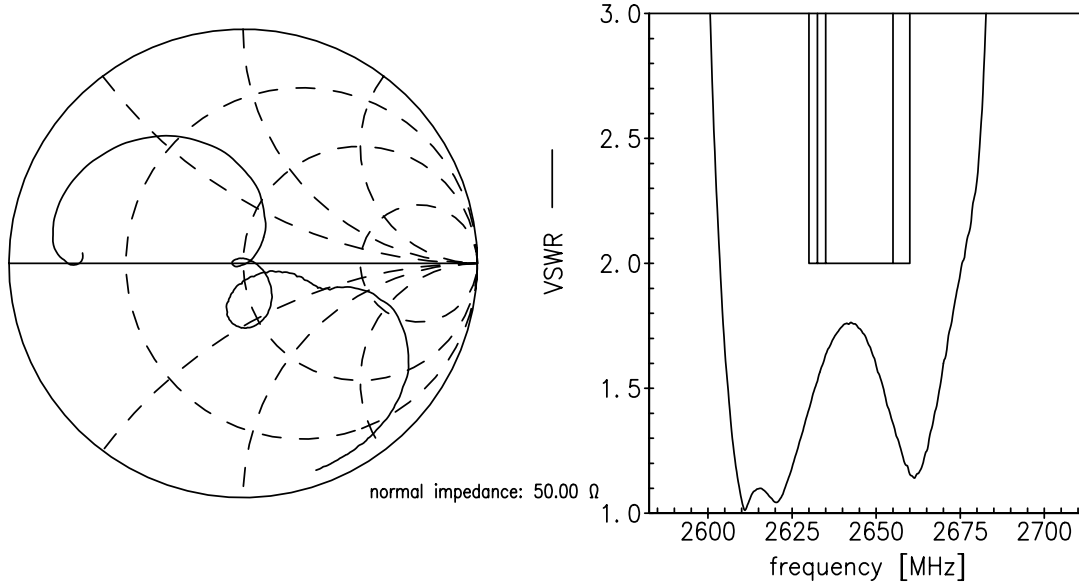


Data sheet

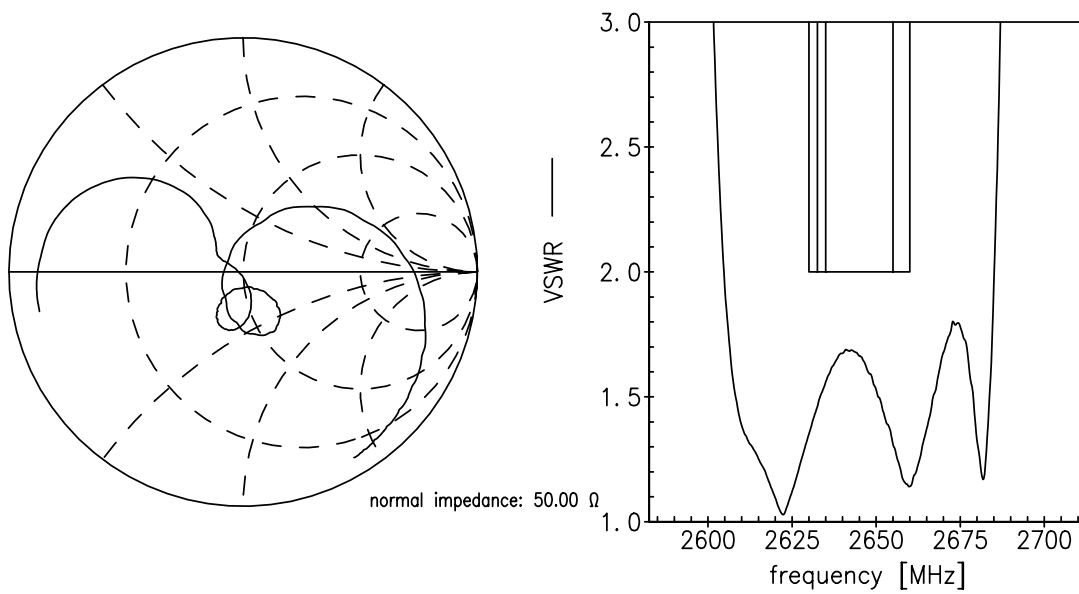


Reflection coefficient and VSWR

S₁₁ function



S₂₂ function





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References

Type	B8761
Ordering code	B39262-B8761-F210
Marking and package	C61157-A8-A8
Packaging	F61074-V8212-Z000
Date codes	L_1126
S-parameters	B8761_NB.s2p, B8761_WB.s2p See file header for port/pin assignment table.
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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