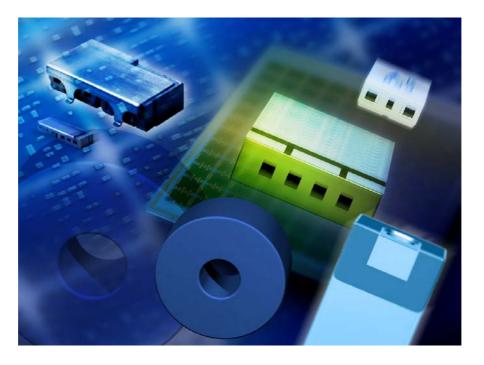


7-Pole Duplexer for WCDMA

Preliminary Data Sheet



Features

- SMD duplexer consisting of coupled resonators with stepped impedances
- Ba(NdSm)TiO₃ ($\varepsilon_r = 82 / TC_f = 0 \pm 10 \text{ ppm/K}$)
- Excellent reflow solderability

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Page 2	 Component drawing
	Recommended footprint
Page 3	Characteristics
Page 4	Maximum ratings
	Typical passband characteristic
Page 5	Processing information
	Soldering requirements

• Delivery mode

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Duplexer

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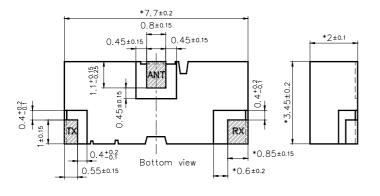


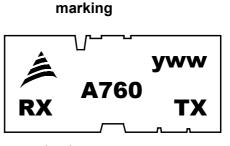
7-Pole Duplexer for WCDMA

Duplexer B69967N2047A760

Preliminary Data Sheet

Component drawing



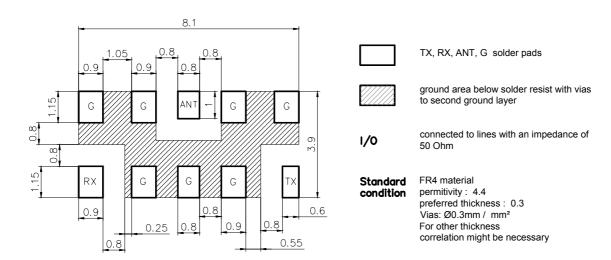


y= calendar year w= calendar week e.g.: 427= calendar year 2004, calendar week 27

*depending in final pressing tool

View from below onto the solder terminals and view from beside

Recommended footprint



- will be fixed acc. to final pressing tool

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7-Pole Duplexer for WCDMA Preliminary Data Sheet

Characteristics Receiver

		min.	typ.	max.	
Center frequency	f _C	-	2140	-	MHz
Insertion loss	αιΓ		1.3	1.6	dB
Passband	В	60			MHz
Amplitude ripple (peak - peak)	$\Delta \alpha$			0.9	dB
Standing wave ratio	SWR			1.9	
Impedance	Z		50		Ω
Power	P_{avg}			0.8	W
Attenuation	α				
at DC to 1790 MHz		35 *			dB
at 1790 to 1920 MHz		30			dB
at 1920 to 1980 MHz		50			dB
at 1980 to 2025 MHz		20			dB
at 4030 to 4150 MHz		23 *			dB
at 5950 to 6000 MHz		33 *			dB
	•		•	•	•

*depending on final pressing tool and final layout

Characteristics Transmitter

		min.	typ.	max.	
Center frequency	f _C	-	1950	-	MHz
Insertion loss	αιΓ		1.1	1.4	dB
Passband	В	60			MHz
Amplitude ripple (peak - peak)	Δα			0.6	dB
Standing wave ratio	SWR			1.8	
Impedance	Ζ		50		Ω
Power	P_{max}			1.0	W
Attenuation	α				
at DC to 1000 MHz		40			dB
at 2110 to 2170 MHz		42			dB
at 2400 to 2550 MHz		40			dB
at 3840 to 3960 MHz		33 *			dB
at 5760 to 5940 MHz		23 *			dB
*depending on final pressing tool and final layout					

Isolation Tx – Rx

					min	. typ.	m	ax.	
Attenuation				α					
	at 192	0 to 1980 MHz			50				dB
	at 2110 to 2170 MHz			45				dB	
							1		
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7-Pole Duplexer for WCDMA Preliminary Data Sheet

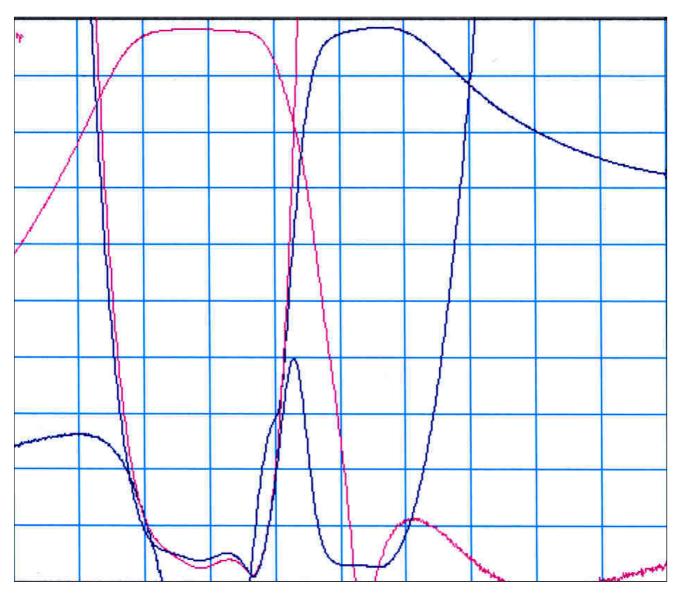
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Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	$ au_{op}$	-40 / +85	°C

Typical passband characteristic



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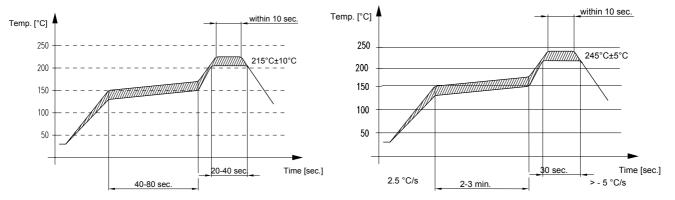
Processing information

• Wettability to IEC 68-2-58: \geq 75% (after aging)

Soldering Requirements

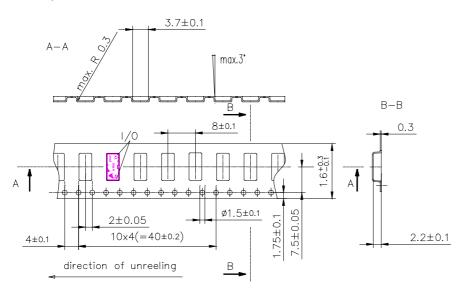
	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (measuring point on top surface of the component)		260 (max. 2 sec.) 250 (max. 10 sec.)	°C ℃

Recommended soldering conditions (infrared):



Delivery mode

- Blister tape acc. to IEC 286-3, polyester, grey
- Pieces/tape: 3000



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The information contained in this data sheet describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association). unless otherwise agreed.

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Duplexer

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