

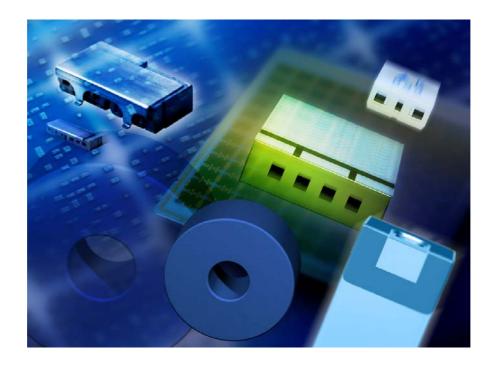
Microwave Ceramics and Modules

Filter

2-Pole Filter for SIRIUS

B69812N2327A314

Data Sheet



Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO₃ ($\varepsilon_r = 88 / TC_f = 0 \pm 10 \text{ ppm/K}$) with a coating of copper (10 μ m) and tin (>5 μ m)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

Index

- Page 2 Component drawing
 - Recommended footprint
- Page 3 Characteristics
 - · Maximum ratings
 - Typical passband characteristic
- Page 4 Processing information
 - Soldering requirements
 - Delivery mode

I									1
	ISSUE DATE	12.03.04	ISSUE	В	PUBLISHER	SAW MWC PD	PAGE	1/4	



Microwave Ceramics and Modules

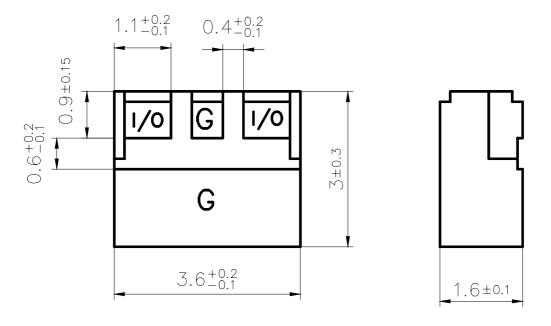
Filter

2-Pole Filter for SIRIUS

B69812N2327A314

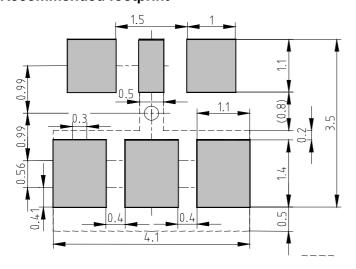
Data Sheet

Component drawing



View from below onto the solder terminals and view from beside

Recommended footprint



						1	
ISSUE DATE	12.03.04	ISSUE	В	PUBLISHER	SAW MWC PD	PAGE	2/4



Microwaya	Caramice	and Modules
- 1 1 1 1 2 1 2 2 A A A A A A A A A A A A	7 ~ 7 ~ 1 . 1 . 1 . 1 . 2 ~ 3	Call fa

Filter

2-Pole Filter for SIRIUS

B69812N2327A314

Data Sheet

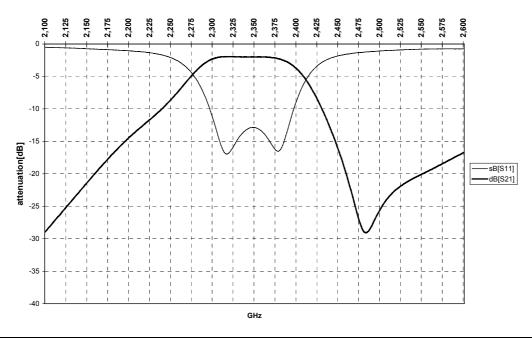
Characteristics

		min.	typ.	max.	
Center frequency	f_{C}	-	2326	-	MHz
Insertion loss	α_{IL}		1.6	1.8	dB
Passband	В	14			MHz
Amplitude ripple (peak - peak)	$\Delta \alpha$		0.2	0.5	dB
Standing wave ratio	SWR			2.0	
Impedance	Z		50		Ω
Attenuation at DC to 1703 MHz at 2127 MHz at 2162 to 2175 MHz at 2227 MHz at 2400 MHz at 2426 MHz at 2500 MHz at 2526 MHz	α	33 20 12 10 3 6 15 20	35 24 15 11		dB dB dB dB dB dB dB

Maximum ratings

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

Typical passband characteristic



ISSUE DATE 12	12.03.04 ISSUE	ВР	UBLISHER S	SAW MWC PD	PAGE	3/4
---------------	----------------	----	------------	------------	------	-----



Microwave Ceramics and Modules

Filter

2-Pole Filter for SIRIUS

B69812N2327A314

Data Sheet

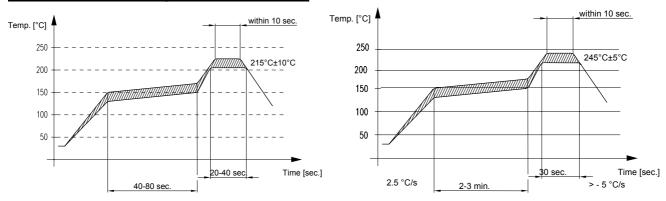
Processing information

Wettability acc. to IEC 68-2-58: ≥ 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)	235 (max. 2 sec.) 225 (max. 10 sec.)	260 (max. 2 sec.) 250 (max. 10 sec.)	°C °C

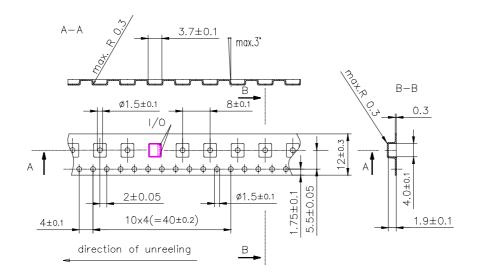
Recommended soldering conditions (infrared):



Delivery mode

• Blister tape acc. to IEC 286-3, polyester, grey

Pieces/tape: 3000



© EPCOS AG 2001. All Rights Reserved. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

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.

DATE 12.03.04 ISSUE B PUBLISHER SAW MWC PD	SSUE DATE	B PUBLISHER SAW MWC PD PAGI
--	-----------	-----------------------------