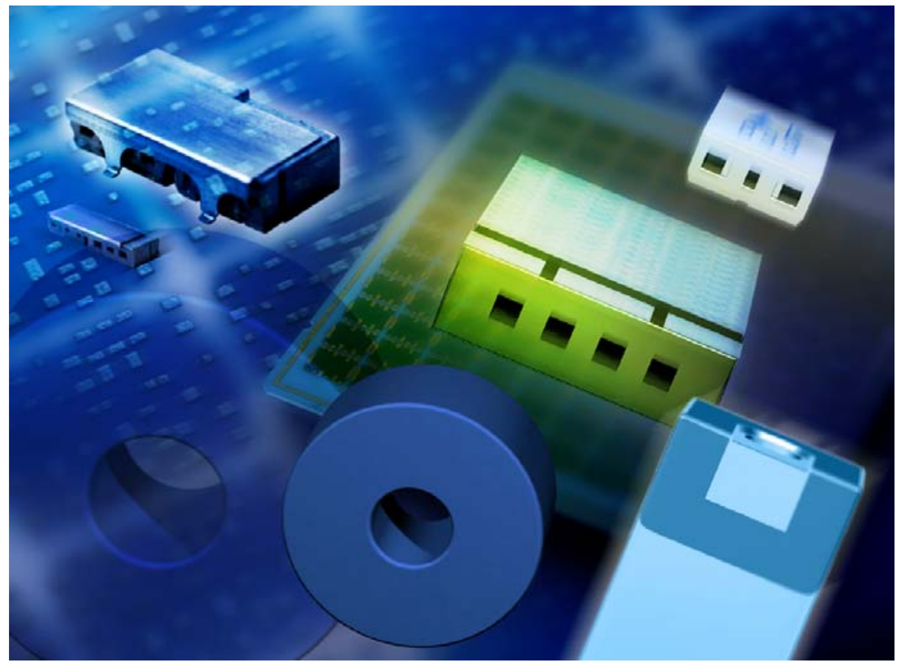
Microwave Ceramics and Modules	Filter
2 – Pole Filter for Mobile Broadcasting	**B69812N2647A327**

Preliminary Data Sheet



Features

- Small Dimensions (3mm x 2.8mm x 2mm)
- Low Losses in Passband (typ. 1.5dB)
- High attenuations at GSM, PDC, PHS, UMTS, and WLAN Bands
- Excellent reflow solderability, no migration effect due to copper/tin metallization

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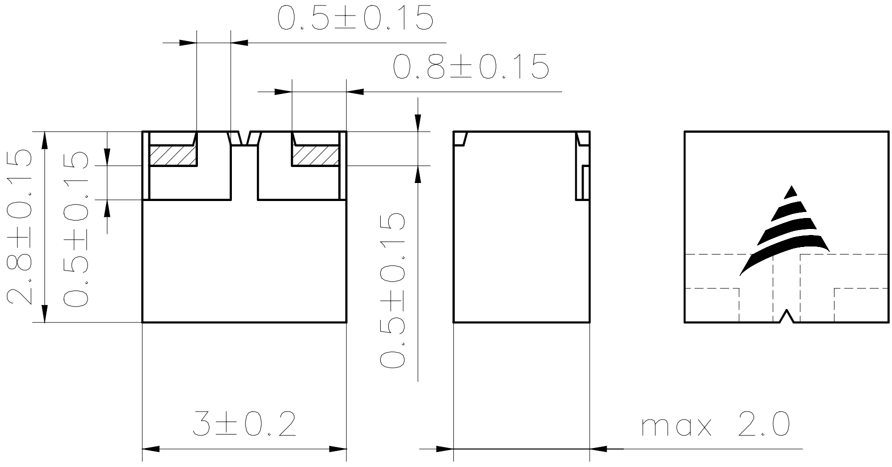
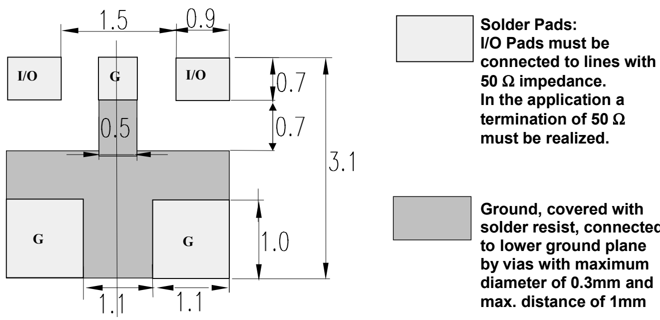
Dimension Limits



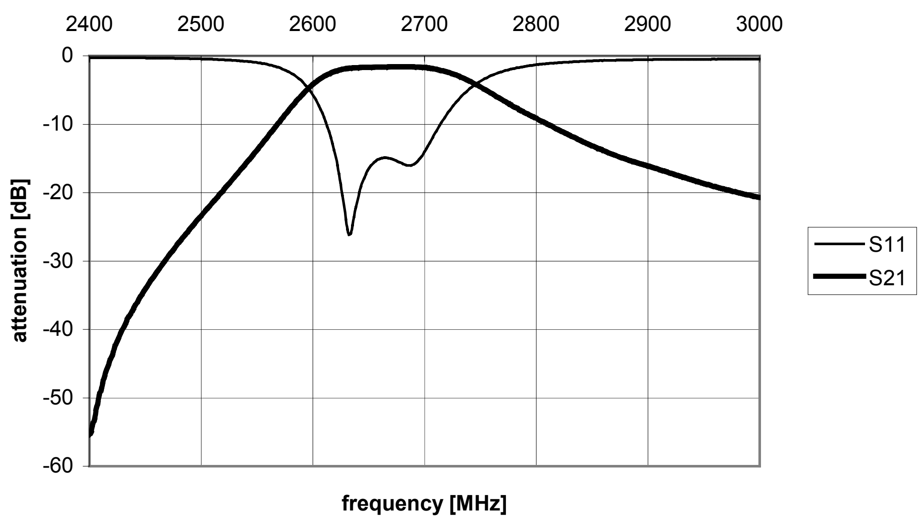
Recommended Footprint



Characteristics (over whole temperature range)		min.	typ.	max.	
Center frequency	f_C	-	2.6425	-	GHz
Insertion loss	α_{IL}		1.5	2.0	dB
Passband (2629- 2656)	B	27			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		0.1	0.3	dB
Standing Wave Ratio / Return Loss [dB]			1.5 / -14	2.0 / -9.5	
Impedance	Z		50		Ω
Attenuation	α				
at DC to 440 MHz		57	>70		dB
at 440 to 1525 MHz		32	45		dB
at 1525 to 1680 MHz		40	45		dB
at 1680 to 1980 MHz		35	40		dB
at 1980 to 2170 MHz		32	35		dB
at 2170 to 2500 MHz		22	25		dB
at 3450 MHz		30	35		dB

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

Typical passband characteristics



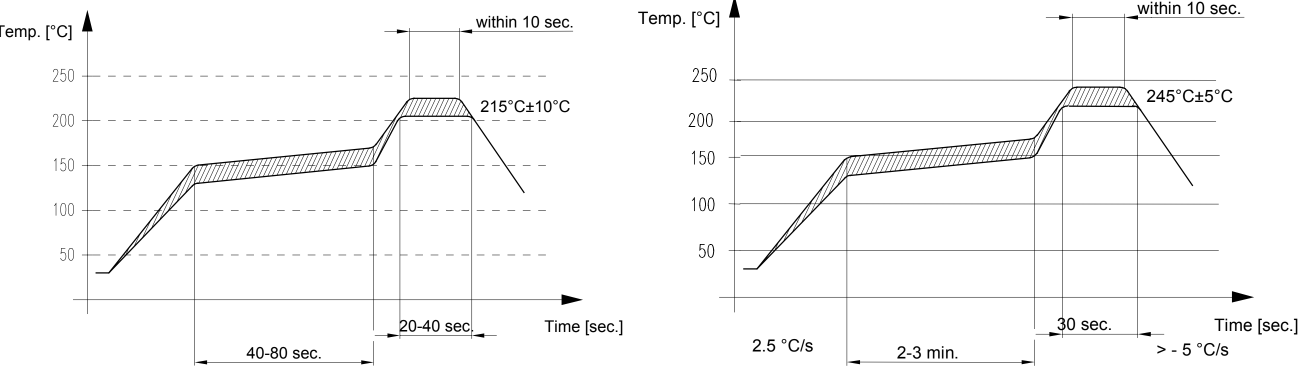
Processing information

Wettability acc.to IEC 68-2-58: ≥ 75% (after aging)

Soldering Requirements

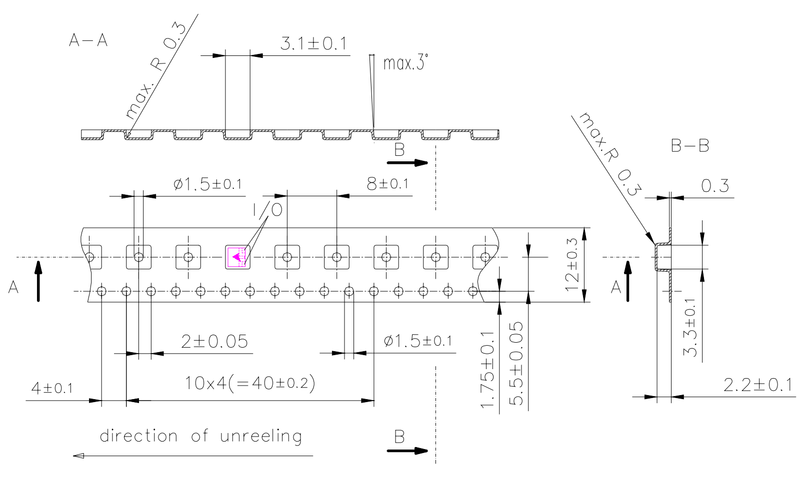
	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type	reflow	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	260 (max. 2 sec.) 250 (max. 10 sec.)	°C °C

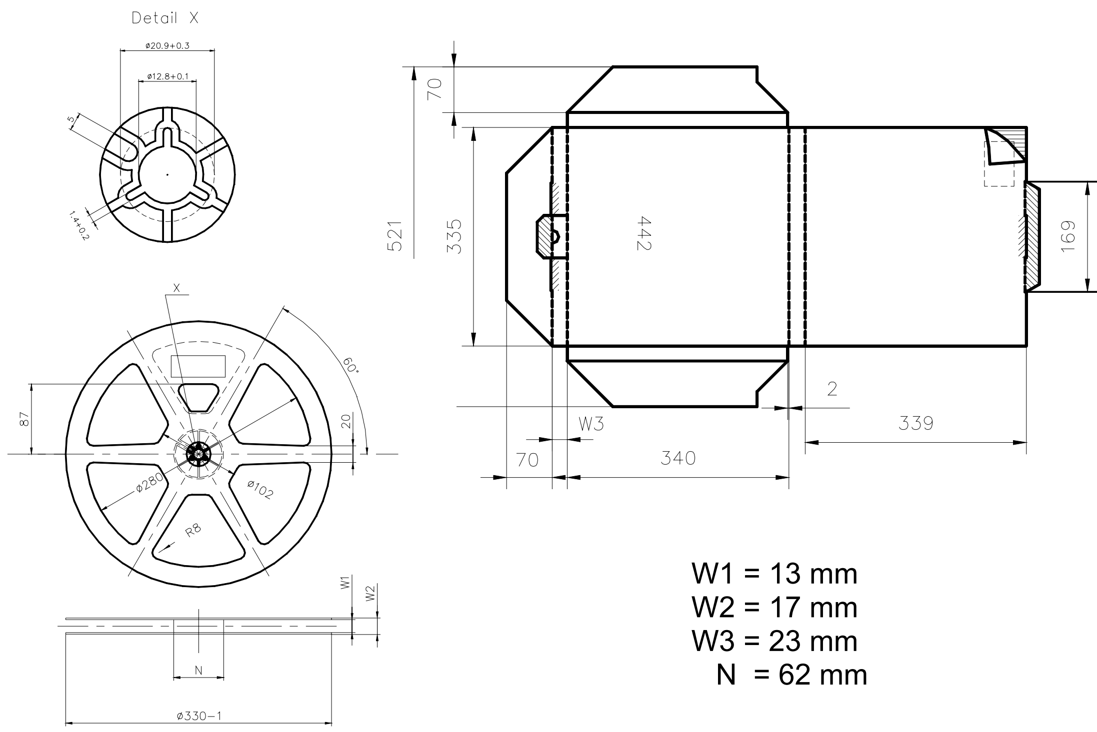
Recommended soldering conditions (infrared):



Delivery mode

- Blister tape acc. to IEC 286-3, grey
- Pieces/tape**: 4000**





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