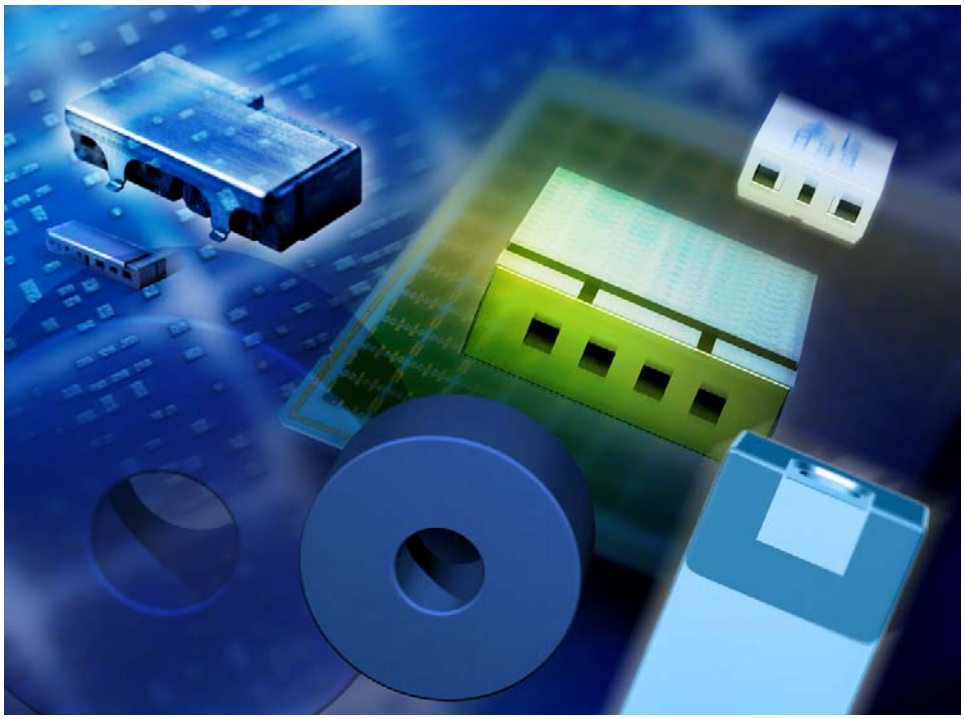
3-Pole Filter for WLL Base Station

B69843N3507A160

Data Sheet



Application

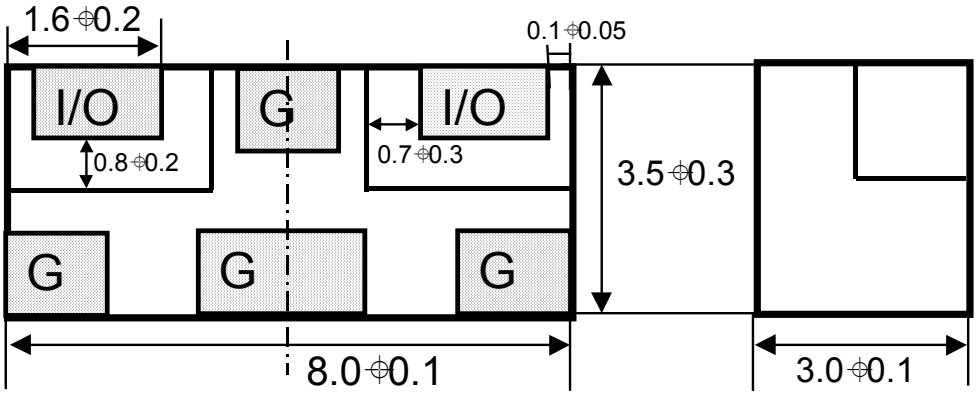
- RF filter for WLL (Wireless Local Loop)

Features

- SMD filter consisting of coupled resonators with stepped impedances
- $MgTiO_3$-$CaTiO_3$ (ε_r = 21 / TC_f =0±10 ppm/K) with a coating of copper (10µm) and tin (>5µm)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

Index

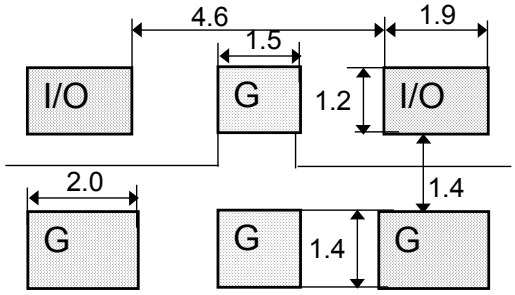
Component drawing



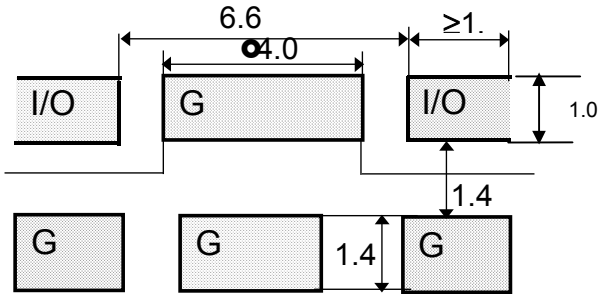
View from below onto the solder terminals and view from beside

Footprint

recommended



compatible footprint



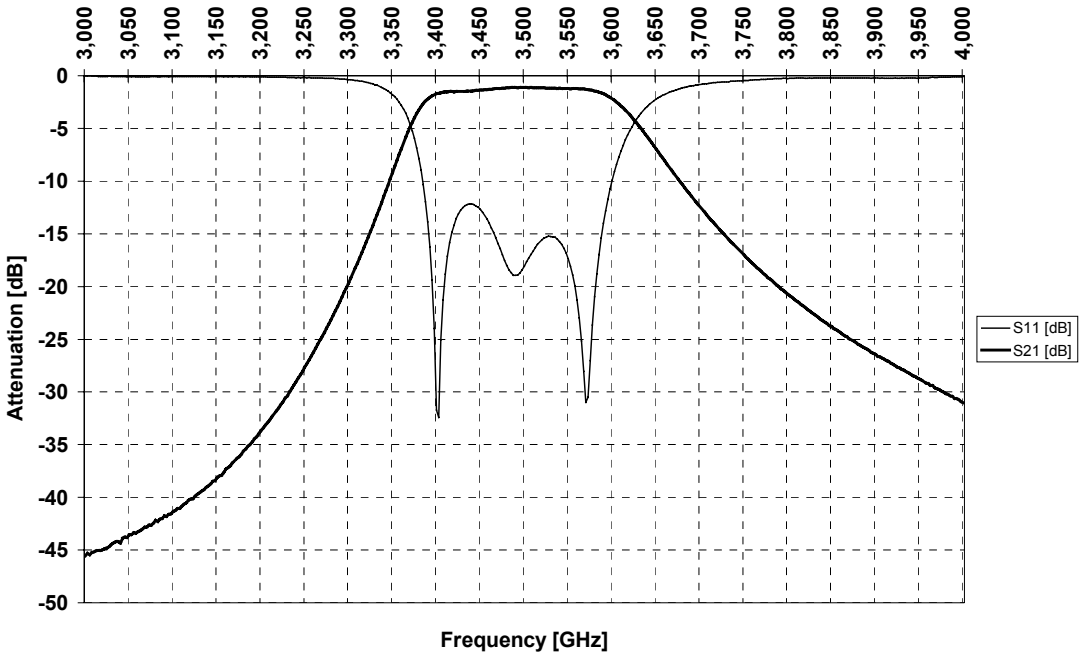
Characteristics

		min.	typ.	max.	
Center frequency	f_c	-	3500.0	-	MHz
Insertion loss	α_{IL}		1.2	1.8	dB
Passband	B	160			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		0.5	1.0	dB
Standing wave ratio	SWR		1.5	2.0	
Impedance	Z		50		Ω
Power	P			1.0	W
Attenuation	α				
at DC to 2800 MHz		40	45		dB
at 2800 to 3240 MHz		26			dB
at 3900 to 5000 MHz		25			dB
at 5000 to 7200 MHz		20			dB

Maximum ratings

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

Typical passband characteristic



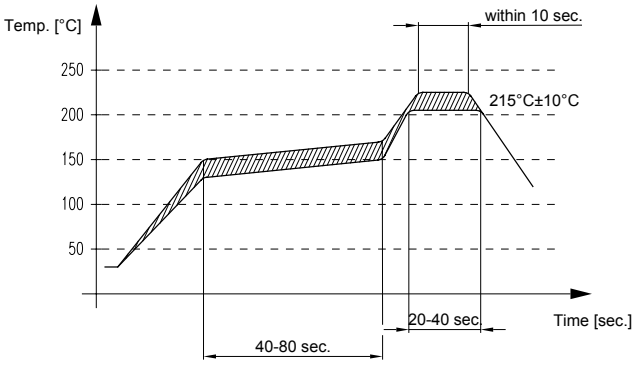
Processing information

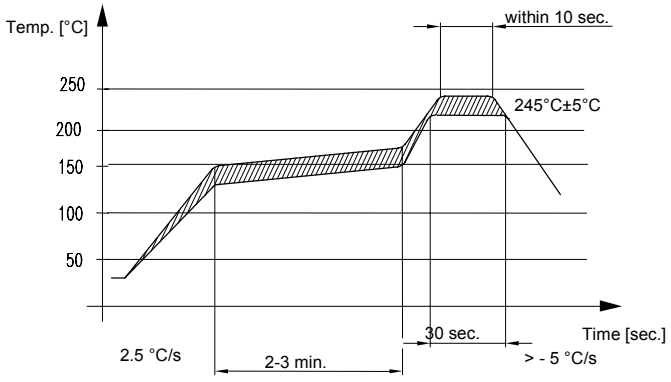
- Wettability acc to IEC 68-2-58: ≥ 75% (after aging)

Soldering Requirements

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

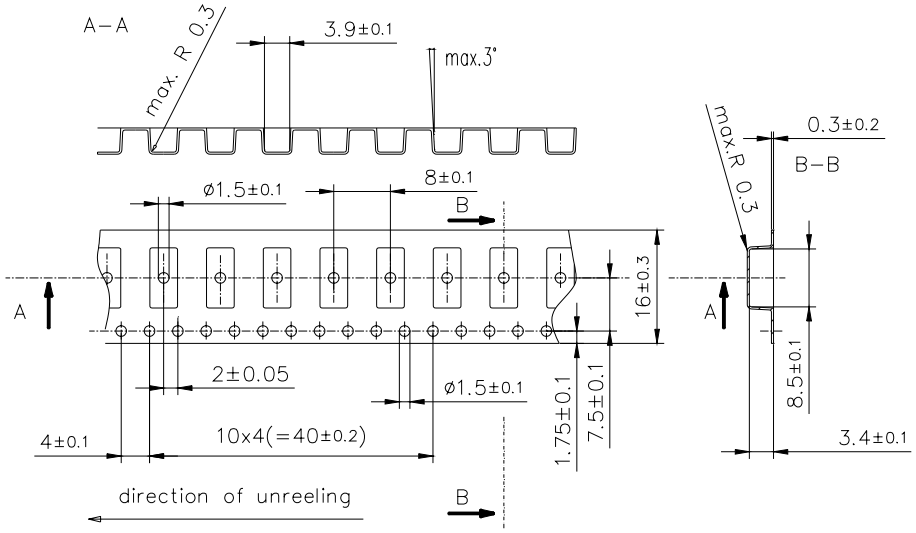
Recommended soldering conditions (infrared):





Delivery mode

- Blister tape acc. to IEC 286-3, PS, grey
- Pieces/tape: 2000



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