



Application

- RF filter for DECT standard (Digital European Cordless Telephone)

Construction

- SMD filter consisting of coupled resonators
- Ceramic material: (NdBa)TiO₃ with a coating of copper and tin

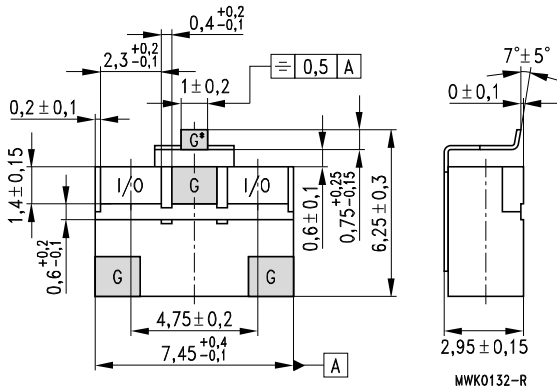
Features

- Small size due to ceramics with high permittivity ($\epsilon_r = 88$)
- Low insertion loss and high temperature stability ($TC_I = 0 \pm 10$ ppm/K)
- High attenuation of 1st and 2nd harmonic

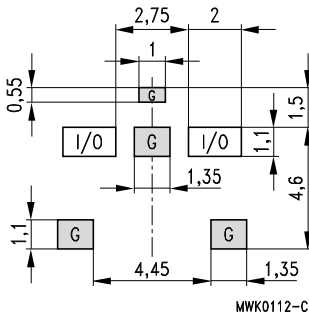
Ordering code

- B69812-N1897-B720

Component drawing



Recommended footprint



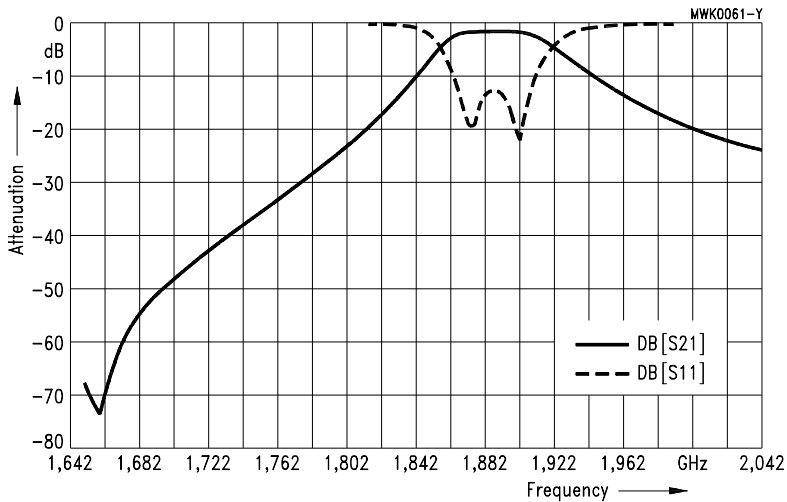
Characteristics

		min.	typ.	max.	
Center frequency	f_c	—	1890	—	MHz
Insertion loss	α_{iL}	—	1,1	1,5	dB
Passband	B	20	—	—	MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$	—	0,3	1,0	dB
Standing wave ratio	SWR	—	1,5	2,0	
Impedance	Z	—	50	—	Ω
Attenuation	α				
at 1660 ... 1680 MHz		40	45	—	dB
at $2 f_c, 3 f_c$		18	—	—	dB

Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	T_{op}	0/+55	°C

Typical passband characteristic



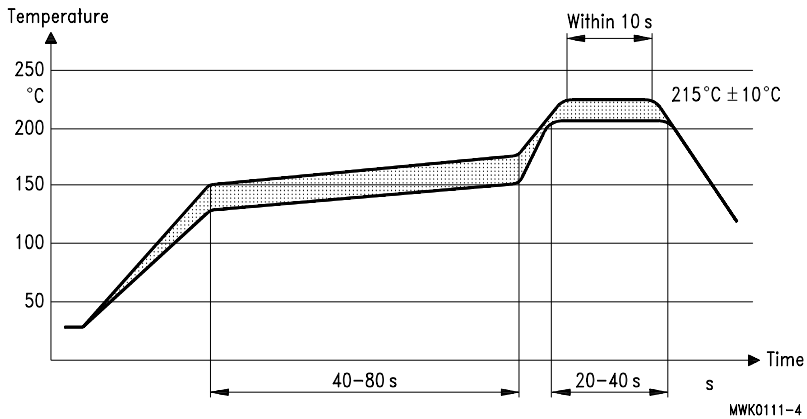
Processing information

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

Soldering requirements

Soldering method	reflow	
Max. soldering temperature (measuring point on top surface of the component)	235 (max. 2 s) 225 (max. 10 s)	°C °C

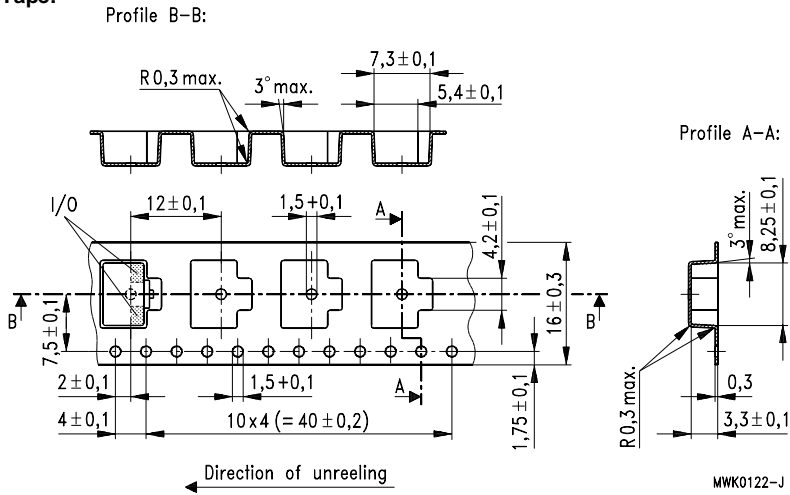
Recommended soldering conditions (infrared)



Delivery mode

- Blister tape to IEC 286-3, polyester, grey
- Pieces/tape: 1500

Tape:



Reel: Diameter = 330 mm