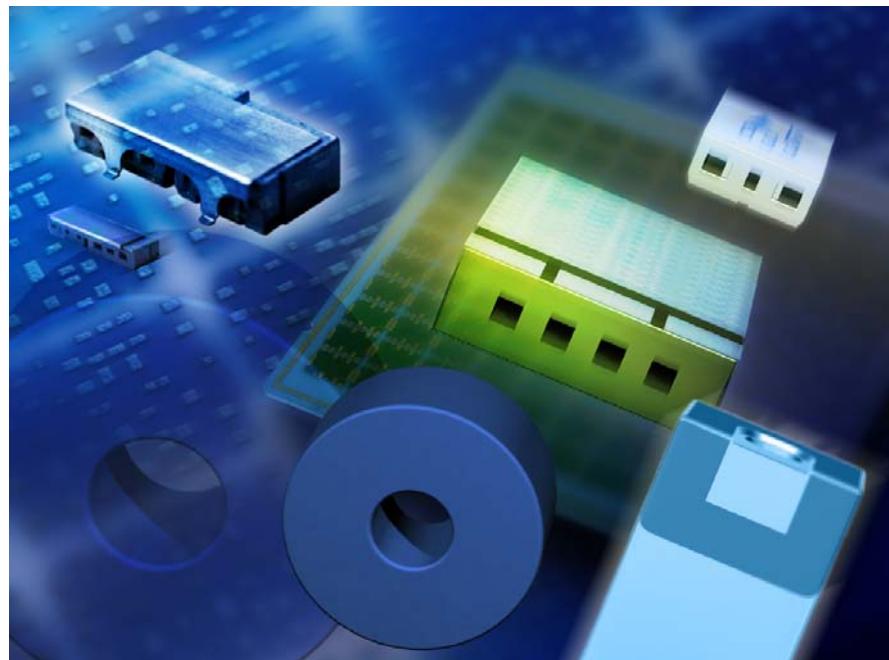


Preliminary Datasheet

Features

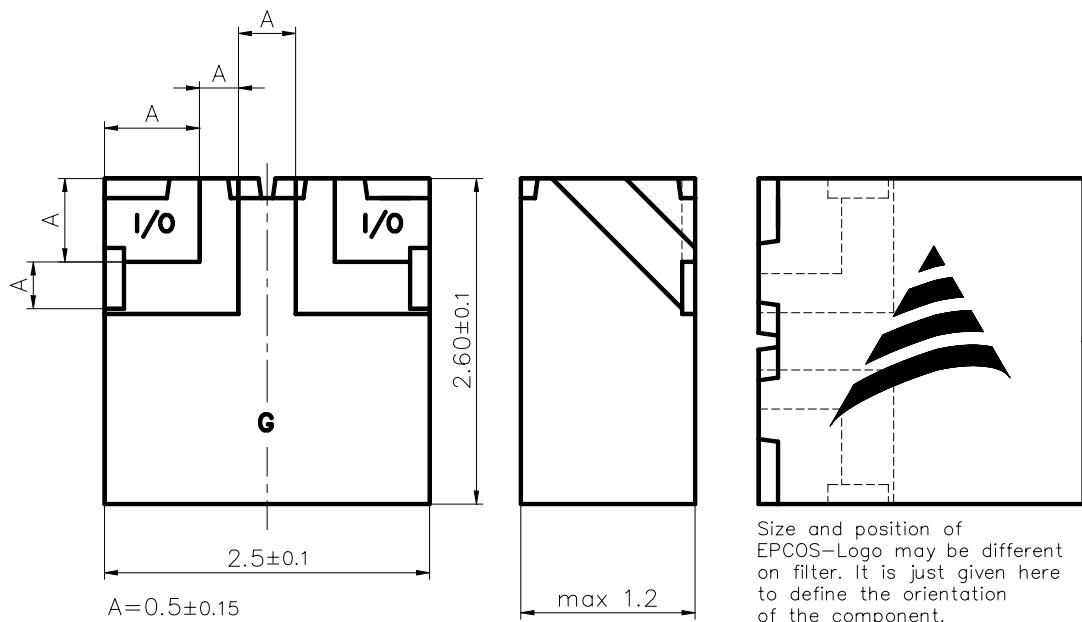
- Low Profile (maximum height 1.2 mm)
- SMD filter consisting of coupled resonators with stepped impedances
- Low losses
- High attenuations at GSM (900, 1800, 1900) and UMTS bands
- High attenuation at 2 times center frequency
- Excellent reflow solderability, no migration effect due to copper/tin metallization

Index

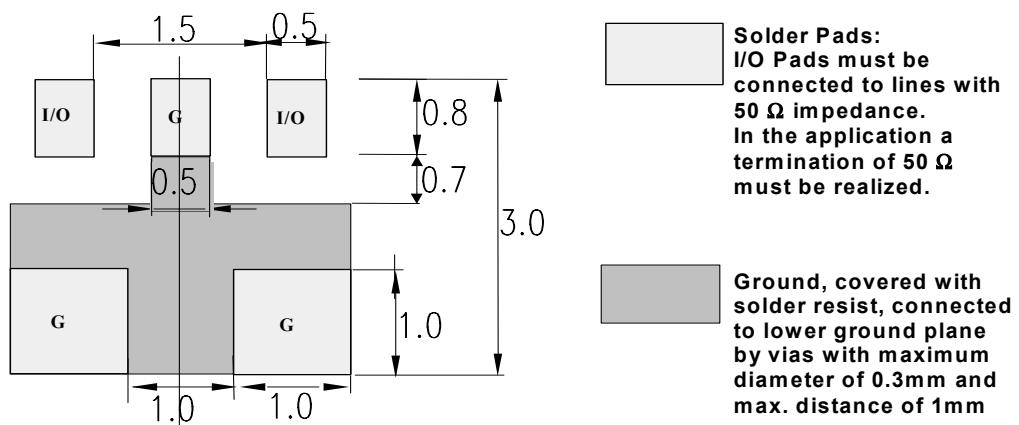
Page 2	<ul style="list-style-type: none"> • Dimension Limits , Marking • Recommended footprint
Page 3	<ul style="list-style-type: none"> • Characteristics • Maximum ratings • Typical passband characteristic
Page 4	<ul style="list-style-type: none"> • Processing information • Soldering requirements • Delivery mode

Preliminary Datasheet

Dimension Limits , Marking



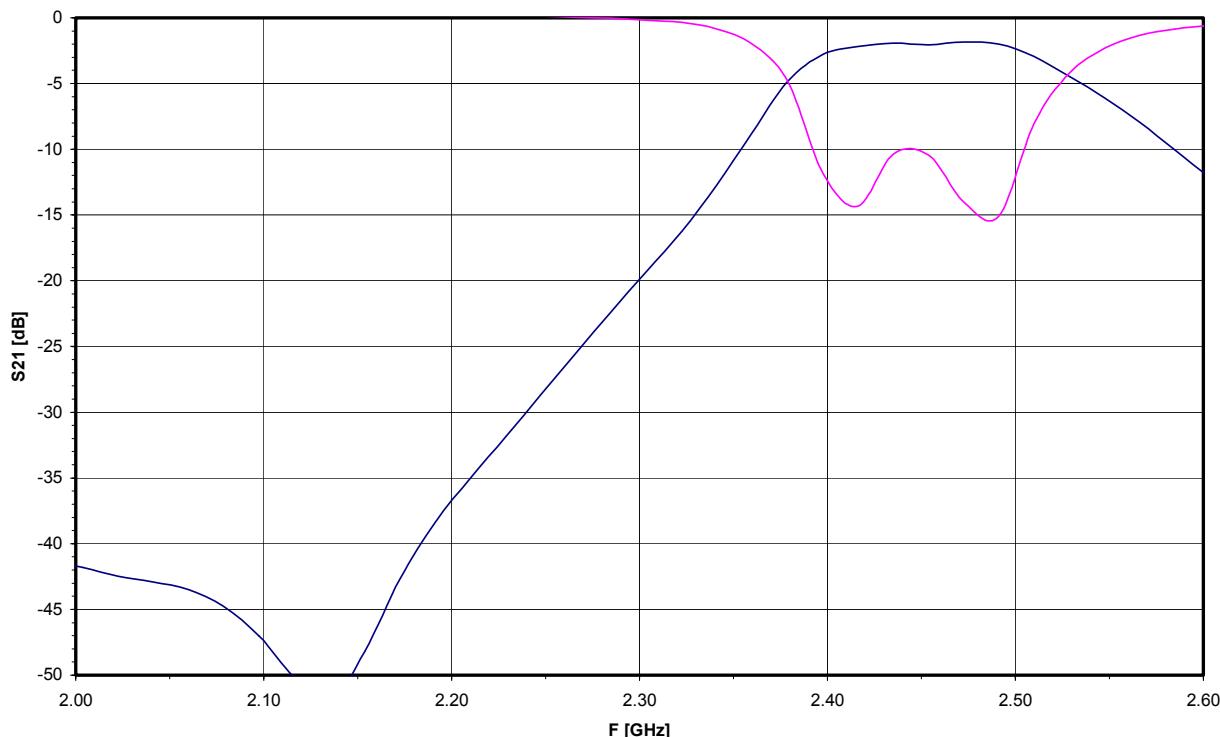
Recommended footprint (Same Footprint as for „X“101 and „X“201 WLAN-Series)



Characteristics (over whole temperature range)		min.	typ.	max.	
Center frequency	f_C	-	2.450	-	GHz
Insertion loss in Passband	α_{IL}		2.2	2.5	dB
Passband (2400- 2500)	B	100			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		0.5	0.8	dB
Return Loss in dB / Standing wave ratio			-11 / 1.8	-9.5 / 2.0	
Impedance	Z		50		Ω
Attenuation	α				
at DC to 1580 MHz		40	43		dB
at 1805 to 1990 MHz		38	41		dB
at 2110 to 2170 MHz		35	37		dB
at 3200 to 4600 MHz		20	25		dB
at 4800 to 5000 MHz		25	30		dB
RF input power (2400 – 2500 MHz)				30	dBm

Maximum ratings

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

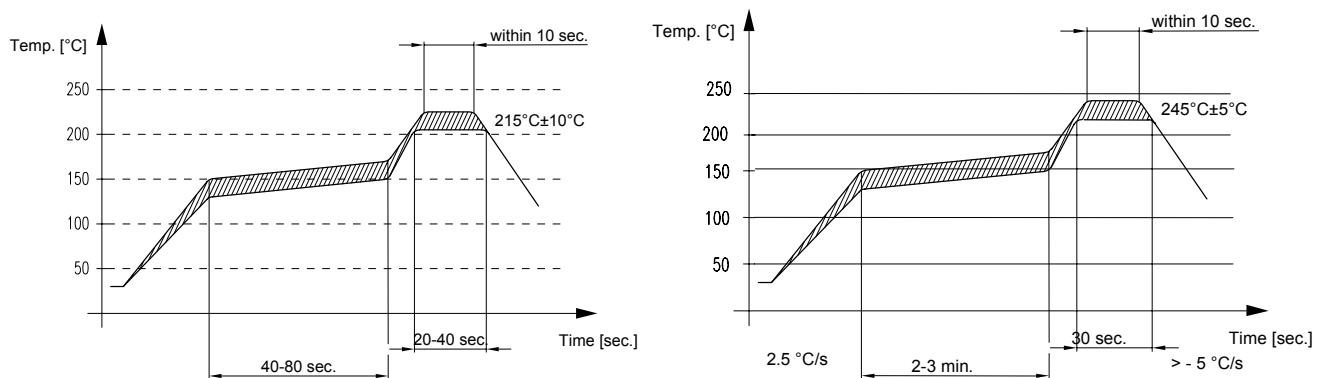
Typical passband characteristics


Preliminary Datasheet
Processing information

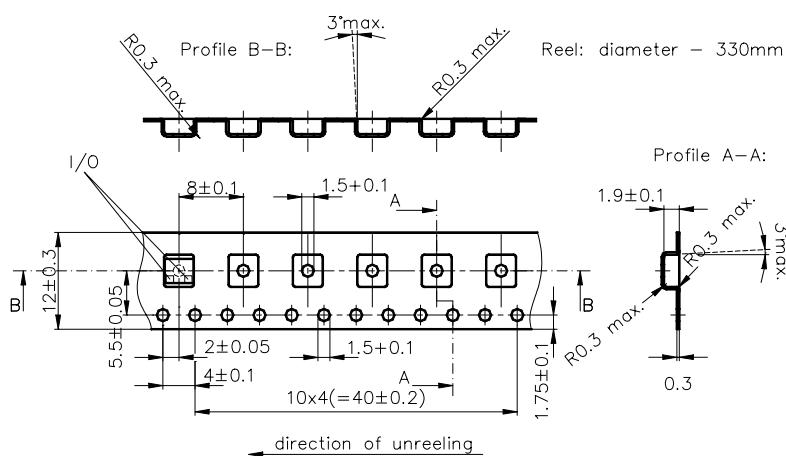
 Wettability to IEC 68-2-58: $\geq 75\%$ (after aging)

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)	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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