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IF Filters for Basestations

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39401B5002U310		2006-12-01	2007-02-28	2007-05-31

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SAW Components

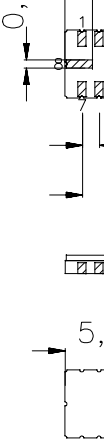
Data Sheet B5002

Data Sheet



EPCC

- Low loss in filter for W-CDMA base station, TX
- 20 MHz usable bandwidth
- Very low passband ripple
- Ceramic SMD package



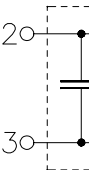
Terminals

- Gold plated

Dim. in mm,

Pin configuration

2	Input
3	Input ground
6	Output
7	Output ground
1, 5	To be grounded
4, 8	Case ground



Type	Ordering code	Marking and Package according to	Packaging according to
B5002	B39401-B5002-U310	C61157-A7-A56	F6107

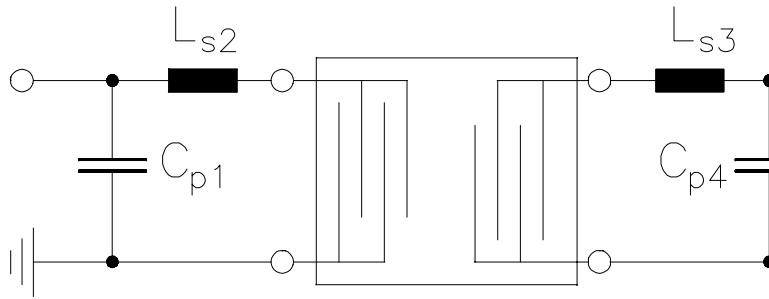
Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	5	V	
Source power	P_s	10	dBm	

Operating temperature range: $T = -40 \dots +85 \text{ }^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50 \text{ } \Omega$ unbalanced and matched
Terminating load impedance: $Z_L = 50 \text{ } \Omega$ unbalanced and matched

		min.	typ.
Nominal frequency	f_N	—	398,0
Minimum insertion attenuation $f_N - 7,50 \text{ MHz} \dots f_N + 7,50 \text{ MHz}$	α_{\min}	—	3,3
Maximum insertion attenuation (in passband) $f_N - 7,50 \text{ MHz} \dots f_N + 7,50 \text{ MHz}$	α_{\max}	—	3,8
Pass bandwidth $\alpha_{\text{rel}} \leq 1,0 \text{ dB}$	$B_{1,0\text{dB}}$	20	26
Amplitude ripple (p-p) $f_N - 1,92 \text{ MHz} \dots f_N + 1,92 \text{ MHz}$ $f_N - 7,50 \text{ MHz} \dots f_N + 7,50 \text{ MHz}$	$\Delta\alpha$	— —	0,2 0,4
Deviation from linear phase (rms) $f_N - 1,92 \text{ MHz} \dots f_N + 1,92 \text{ MHz}$ $f_N - 7,50 \text{ MHz} \dots f_N + 7,50 \text{ MHz}$	$\Delta\varphi$	— —	0,1 1,0
Relative attenuation (relative to α_{\min}) 100 MHz ... 335 MHz 335 MHz ... 338 MHz 338 MHz ... 365 MHz 365 MHz ... 368 MHz 448 MHz ... 3 GHz	α_{rel}	15 38 15 35 15	60 60 60 45 45
Input return loss (in passband) $f_N - 7,50 \text{ MHz} \dots f_N + 7,50 \text{ MHz}$		6	8
Output return loss (in passband) $f_N - 7,50 \text{ MHz} \dots f_N + 7,50 \text{ MHz}$		8	10
Temperature coefficient of frequency	TC_f	—	- 70



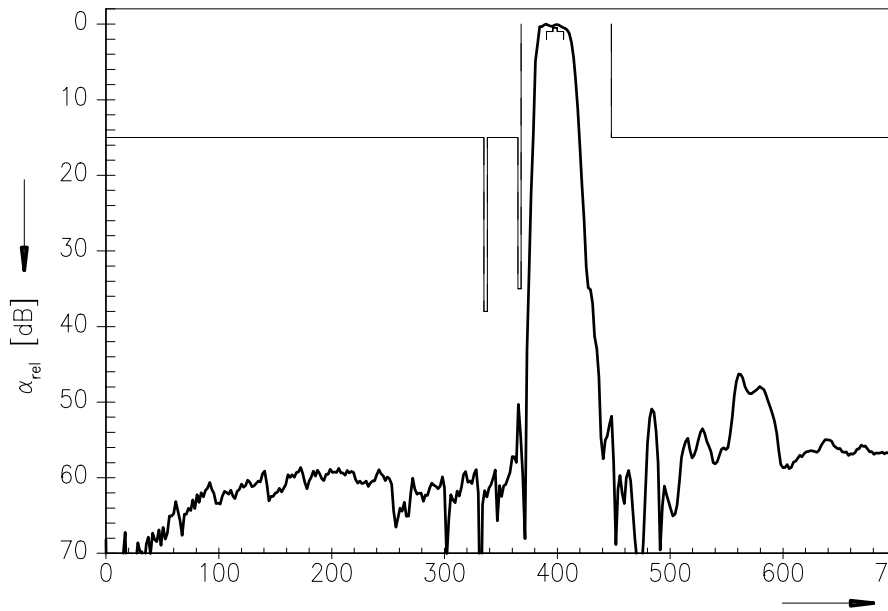
$$C_{p1} = 3,3 \text{ pF}$$

$$L_{s2} = 10 \text{ nH}$$

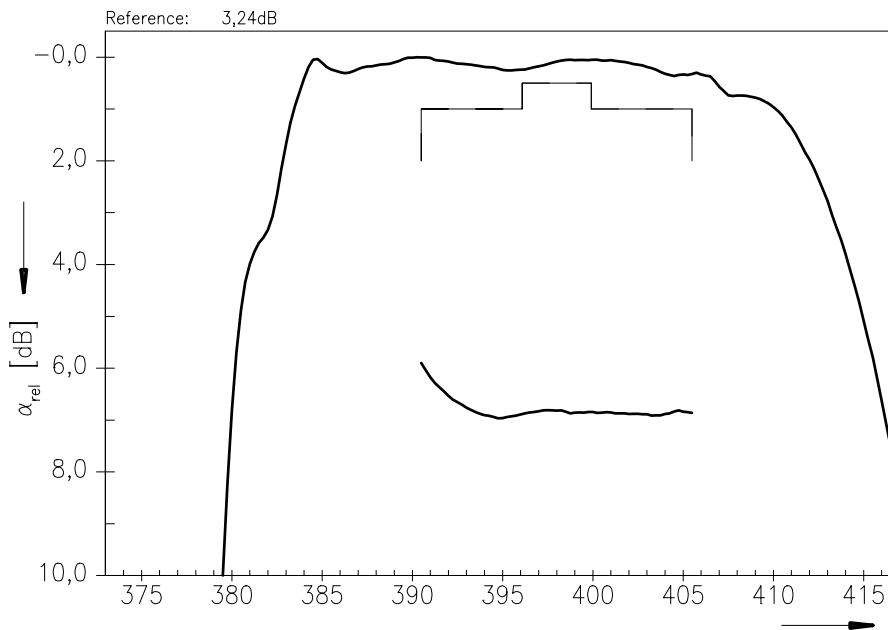
$$L_{s3} = 12 \text{ nH}$$

$$C_{p4} = 2,2 \text{ pF}$$

Element values depend upon board layout



Transfer function (pass band)



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