

SAW filters for infrastructure systems

Series/Type: B3607

The following products presented in this data sheet are being withdrawn.

| Ordering Code | Substitute Product | | Deadline Last Orders | Last Shipments |
|-----------------|--------------------|------------|-------------------------|----------------|
| B39141B3607Z510 | B39141B5093Z510 | 2011-04-01 | 2011-06-30 | 2011-09-30 |

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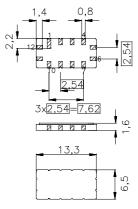
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| SAW Components | B3607 |
|-----------------|------------|
| Low-Loss Filter | 140,00 MHz |
| Data Sheet | |

Ceramic package QCC12



Dimensions in mm, approx. weight 0,4 g

Pin configuration

Features

Terminals

Gold plated

• High performance IF bandpass filter

• Hermetically sealed ceramic package

• Constant group delay

| 11 | Input |
|-------------|-----------------|
| 1 | Input - ground |
| 5 | Output |
| 7 | Output - ground |
| 2, 6, 8, 12 | Case - ground |
| 3, 9 | Shield - ground |
| 4, 10 | To be grounded |

| | Q | 9 ? | |
|------|--------|--------|-----|
| 110- | | | -05 |
| 10- | | | -07 |
| 2,6, | 8,12 g | 3 | |

| Туре | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|-------------------------------------|-------------------------|
| B3607 | B39141-B3607-Z510 | C61157-A7-A55 | F61074-V8163-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| Operable temperature range | Т | - 40/+ 85 | °C | |
|----------------------------|------------------|-----------|-----|------------------------------|
| Storage temperature range | T _{stg} | - 40/+ 85 | °C | |
| DC voltage | V _{DC} | 0 | V | |
| Source power | Ps | 10 | dBm | source impedance 50 Ω |

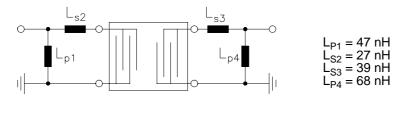
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| SAW Components | | | | E | 33607 |
|--|---|------------------------|------------------------------|----------|-------|
| Low-Loss Filter | | | | 140,00 |) MHz |
| Data Sheet | | | | | |
| Characteristics | | | | | |
| Terminating source impedance: $Z_{\rm S}$ | = 25 °C $= 50 \Omega$ $= 50 \Omega$ 200 kl | and match and match | ning circuit ning circuit | | |
| | | min. | typ. | max. | |
| Center frequency | f _C | 139,75 | 140,00 | 140,25 | MHz |
| (Center between 6dB points) | Ũ | | | | |
| Insertion attenuation at f _C | α_{C} | — | 6,0 | 7,5 | dB |
| Amplitude ripple (p-p) | Δα | | | | |
| 137,50 142,50 MHz | 2 | — | 0,7 | 1,0 | dB |
| Phase ripple (p-p) 137,50 142,50 MHz | Δφ | | 5 | 10 | o |
| | | | | | |
| Pass bandwidth | D | 5,8 | 6,1 | | MHz |
| $lpha_{ m rel}~\leq~$ 1 dB $lpha_{ m rel}~\leq~$ 3 dB | B _{1dB} B _{3dB} | 5,8 6,9 | 6,1 7,1 | _ | MHz |
| $\alpha_{rel} \leq 30 \text{ dB}$ $\alpha_{rel} \leq 40 \text{ dB}$ | B _{3dB} B _{40dB} | | 10,5 | 11,1 | MHz |
| Relative attenuation (relative to α_{C}) | <u>а</u> . | | | | |
| 100,00 134,00 MHz | α_{rel} | 40 | 47 | | dB |
| 146,00 180,00 MH | | 40 | 46 | — | dB |
| Group delay at f _C | τ_{C} | _ | 1,35 | _ | μs |
| Group delay ripple (p-p) | Δτ | | | | |
| 137,50 142,50 MHz | - | | 80 | 150 | ns |
| Temperature coefficient of frequency | | _ | - 87 | _ | ppm/K |

Matching circuit:

Note: Component values depend upon PCB layout



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Nov 29, 2002

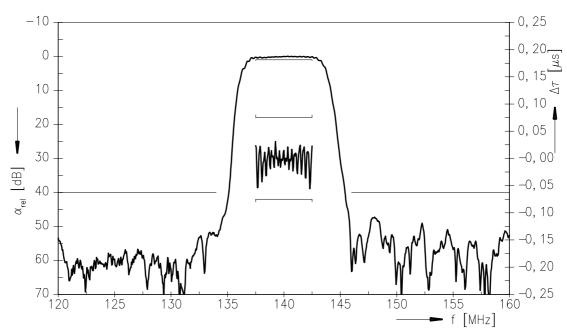
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B3607 140,00 MHz

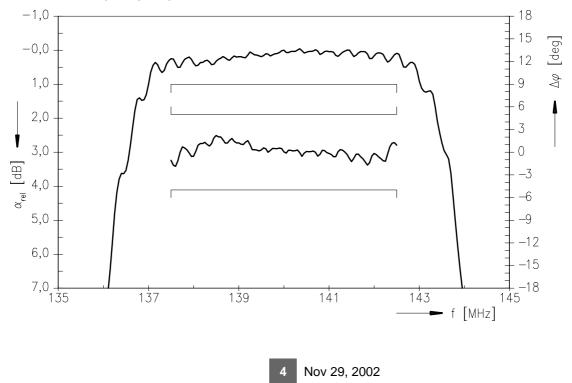
| SAW Components | |
|-----------------|--|
| Low-Loss Filter | |

Data Sheet

Normalized frequency response



Normalized frequency response



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Attachment

1) Pyroelectric pulse amplitude < 50 mV.

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This brochure replaces the previous edition.

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