

DATA SHEET

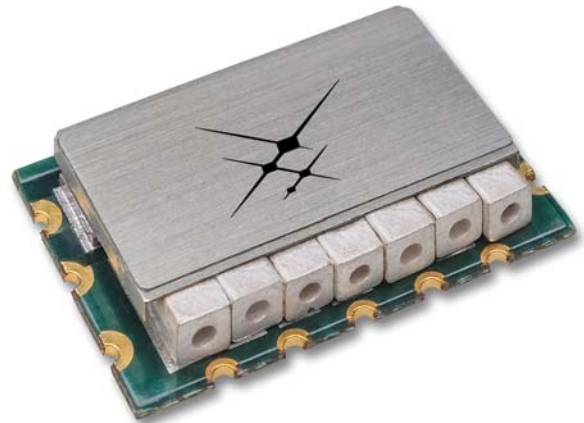
# 1.85 mm Subminiature Ceramic Filter

## Applications

- Electronic warfare
- Portable transceivers for both military and homeland security radio communications

## Features

- Relatively low insertion loss
- SMT designs
- Frequency range from 350 MHz to 6 GHz
- Power handling, with up to 3 W CW
- Wide operating temperature range
- Light weight
- Smaller profile compared to a typical ceramic design
- Easy drop-in solution
- Quick turnaround on new designs
- RoHS-compliant
- Available in various frequencies



## Description

Skyworks, through its wholly owned subsidiary, Trans-Tech, offers a family of ultra-small profile filters available in surface-mount technology (SMT) designs. We can design and manufacture filters from 350 MHz up to 6 GHz, with higher power handling ability up to 3 W, continuous wave (CW). We also offer rapid response times on all filter design requirements.

The small-profile ceramic filter designs offer customers the option to go with a lighter weight, and reduced X Y Z dimensions as solutions to their requirements.

These ceramic filter solutions allow design flexibility beyond traditional ceramic styles. Table 1 provides the electrical specifications.



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.

**Table 1. Electrical Specifications<sup>1</sup>**

Parameter	Symbol	Test Condition	Minimum	Typical	Maximum	Units
Center frequency	f <sub>0</sub>			1300		MHz
Poles				7		–
Bandwidth:	BW					
Bandwidth			f <sub>0</sub>		80	MHz
Insertion Loss @ BW					4	dB
Ripple @ BW					1.7	dB
Return Loss @ BW					12	dB
Attenuation:						
1576 MHz			65			dB
1024 MHz			69			dB
Impedance				50		Ω
Temperatures:						
Storage	T <sub>STG</sub>		–65		+150	°C
Operating	T <sub>A</sub>		–40		+85	°C
Power handling				1 W continuous minimum		

<sup>1</sup> Performance is guaranteed only under the conditions listed in this table.

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