

Abstracts

High power C-band dielectric resonator filters for output multiplexers

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This paper presents a new type of Dielectric Resonator filter for space application with high power behavior. Two filters was built and tested under high RF power in space environment. We applied up to 150 Watts at the input of the first filter and until 280 watt at the input of the second without any mechanical or electrical degradation. Out-of-band carrier and multipactor tests were also performed on this last filter with very good results. Band pass Dielectric Resonator filters for Output Multiplexer (OMUX) applications could be then considered.

[Return to main document.](#)