

INJECTION-MOULDED TX/RX LOADS FOR ORTHOMODE TRANSDUCER ECCOSORB MFPP120

As part of a Ka-band communication system for broadband internet access via satellite, 2 Tx/Rx loads had to be designed for an orthomode transducer (OMT). The design objectives included high RF performance, tight tolerance and a mechanical fixing system to avoid gluing. Within these technical and stringent cost constraints, the only viable option was an injection-moulded absorber. **Eccosorb® MFPP120**, a thermoplastic material with high magnetic loss was selected. **Eccosorb® MFPP120** is used for large volume applications including terminations, caps and covers, RF filters and cavity resonance absorbers.



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