Abstracts

A Multi-Channel Rotary Joint for Spacecraft Applications

E. Matthews and M.A. Ikemoto. "A Multi-Channel Rotary Joint for Spacecraft Applications." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 157-159.

A four-channel coaxial rotary joint has been designed for transferring S- and X-band signals between a spinning satellite and a despun antenna system. Measurements show insertion losses under 0.5 dB, VSWR's under 1.2, and inter-channel isolations exceeding 50 dB.

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