

# Application of Liquid Crystal Variable Retarder in Tunable Birefringent Filter

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Liquid Crystals have several characteristics beneficial to tunable birefringent filter designs. Operating on low voltages ( $\sim 10\text{V}$ ), change retardance quickly (10ms) , true zero-order retarder , and thus offer excellent fields of view for imaging applications. Design considerations for tunable birefringent filters with Liquid Crystal Variable Retarder (LCVR) are discussed.