50 GHz Fiber Bragg Gratings and Temperature Compensating with up to Eight Packaged Gratings

DESCRIPTION

Fiber Bragg Gratings (FBG) are often used in telecommunication applications involving dense wavelength division multiplexing (DWDM) and Optical Add-Drop Modules (OADM). Other FBG applications include wavelength stabilization, dispersion compensation and gain flattening. In comparison to popular thin film filters, FBG based devices promise to deliver the steep-skirted profiles necessary to provide high adjacent channel isolation as the channel spacing in DWDM systems gets smaller and smaller. The in-fiber solution of the FBG is also advantageous to system designers striving to reduce their network's overall insertion loss. Gould packaged DWDM fiber Bragg gratings offer flat top passbands, sharp spectral roll off and high reflectivity with minimal thermal drift over a wide operating temperature range.

These 50 GHz DWDM packaged gratings offer exceptional performance. They provide flat top passbands with sharp spectral roll offs, which are well suited for high performance DWDM systems. These gratings are available with up to eight gratings in a single package.

PARAMETERS

PARAMETER	50 GHz
Center Wavelength (λ_c)	C & L Band (ITU Grid)
Passband Width @ -0.25dB	λ_c –0.06nm
Center Wavelength Tolerance	$\pm$ 0.025nm
-3dB Reflected Bandwidth	<0.35nm
Reflection Bandwidth	<0.3nm @ left & right @-22dB
Transmission Bandwidth	>0.25nm @ -30dB
Adjacent Channel Isolation	30dB
Next Adjacent Channel Isolation	35dB
Reflectivity (%)	>99.9
Cladding Mode Suppression	<0.2dB (λ_p – 10nm)
PDL	<0.2dB
Chromatic Dispersion	<200ps/nm

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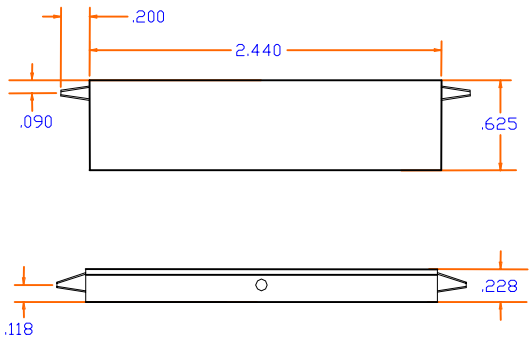
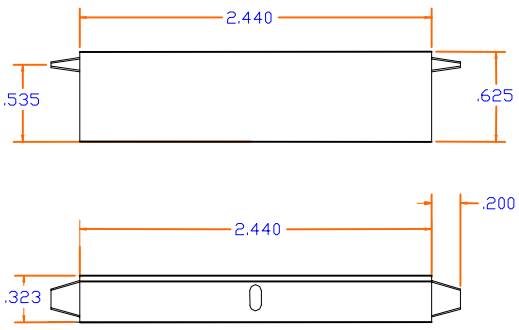
PACKAGING DIMENSIONS

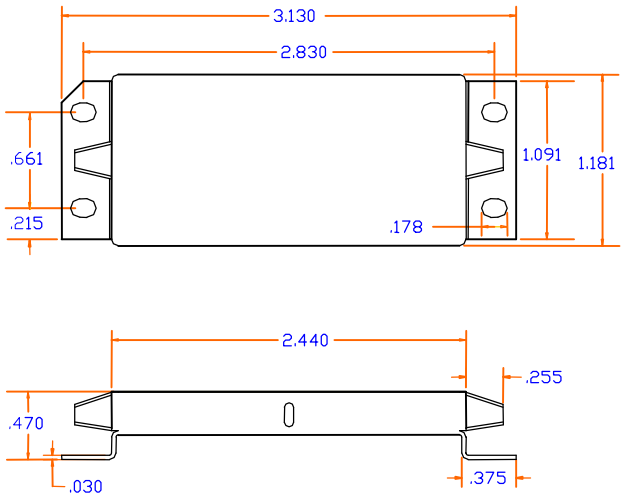
Up to Two Grating Package



Up to Four Grating Package



Up to Eight Grating Package



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Ordering Information

FBGP - ___ - ___ ___ ___ - ___ - ___ ___ - ___ ___ ___