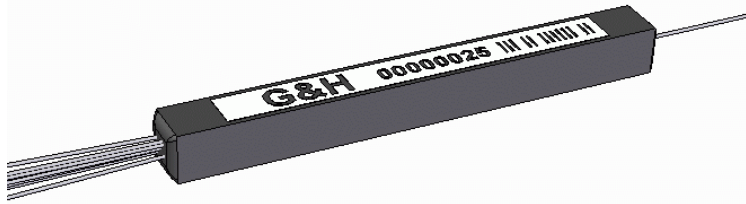




Gooch & Housego

アプリケーションノート：
ファイバーレーザー用励起光コンバイナーの推奨使用法



Applications Notes- Power Combiners

TFB Series Power Combiners – High Power Usage

As with any component used directly in a high power transmission path, it is recommended that adequate heat-sinking is provided for both housing options.

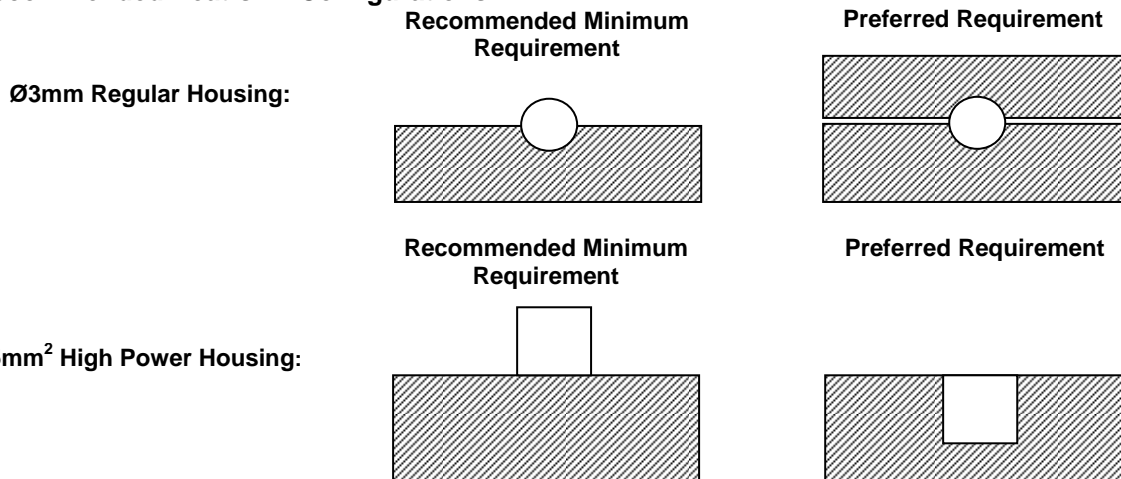
Gooch & Housego's Regular $\varnothing 3\text{mm}$ cylindrical housing will perform well for powers of up to $\sim 2\text{W}$ per input or $\sim 15\text{W}$ total input power depending on specific mode-fill conditions, CW/Pulsed operation and cooling efficiency of the heatsink / component mounting surface.

For higher powers the 'High Power Housing' option shown above is recommended since its internal design ensures maximum heat transfer to the external flat surfaces which have been optimised for good thermal contact with heatsink / cooling surfaces.

G&H's TFB Series Power Combiners have been proven by successfully completing a rigorous qualification program and will provide long reliable service when used within the guidelines mentioned. Operation outside of these guidelines or at extreme high powers (i.e. transmission of $\gg 80\text{W}$ total input power, depending on specific mode-fill conditions, CW/Pulsed operation and cooling efficiency of the application) will invalidate the G&H's responsibility as the supplier.

For high power experimentation / applications it is suggested that the temperature of the housing is monitored at the DCF end (the last 10mm of the housing at the single port side) and restricted to temperatures up to 75°C .

Recommended Heat-sink Configurations



If you require any further information including more detailed technical and qualification data about these or any other G&H Fibre Optics components, please contact the Sales Team.

Contact: sales@goochandhousego.com

www.goochandhousego.com



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株式会社オプトサイエンス
http://www.optoscience.com

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング
TEL:03(3356)1064 FAX:03(3356)3466 E-mail:info@optoscience.com
大阪支店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館
TEL:06(6305)2064 FAX:06(6305)1030 E-mail:osk@optoscience.com
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル
TEL:052(569)6064 FAX:052(569)8064 E-mail:ngo@optoscience.com