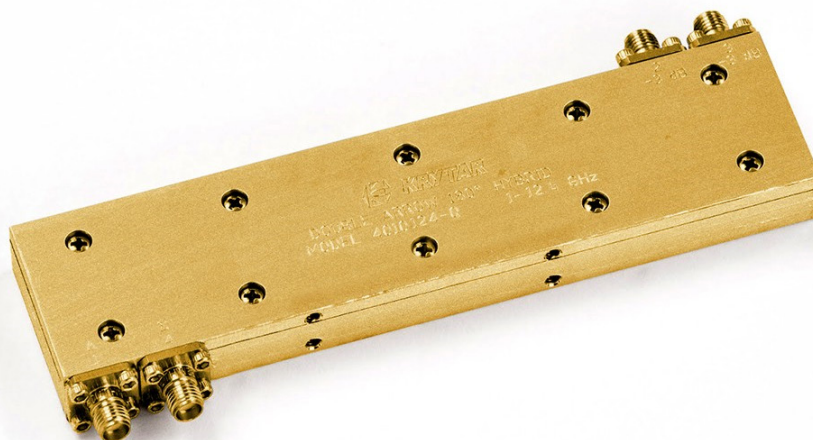




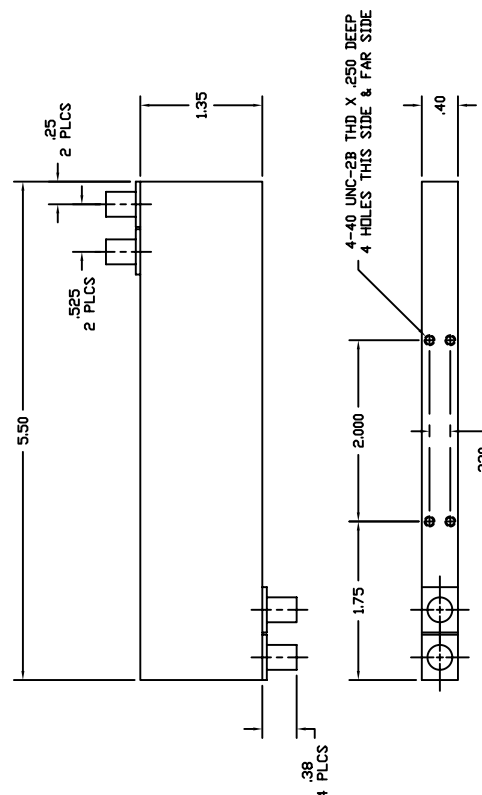
**MODEL 4010124-Q-1006**  
**DOUBLE ARROW**  
**1.0-12.4 GHz 180° HYBRID COUPLER**  
**QUANTUM/CRYOGENIC APPLICATIONS**



**ELECTRICAL SPECIFICATIONS**

|                       |                              |
|-----------------------|------------------------------|
| FREQUENCY RANGE       | 1.0-12.4 GHz                 |
| COUPLING              | 3 dB                         |
| AMPLITUDE IMBALANCE   | $\pm 0.4$ dB                 |
| PHASE IMBALANCE *     | $\pm 10$ Degrees             |
| ISOLATION             | $> 17$ dB                    |
| MAXIMUM VSWR          | 1.6                          |
| INSERTION LOSS        | $< 2.1$ dB                   |
| POWER RATING          |                              |
| Average               | 20 W                         |
| Peak                  | 3 KW                         |
| STANDARD CONNECTORS   | SMA Female                   |
| WEIGHT (ounces)       | 4.9                          |
| OPERATING TEMPERATURE | CRYOGENIC to $+85^{\circ}$ C |

**DIMENSIONS IN INCHES**



**NOTE:** Materials and design optimized for extreme cold temperature operating environments. Contact factory for additional temperature information.



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