



TRIAD TECHNOLOGY INC.

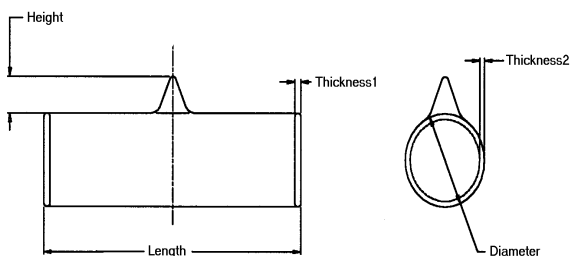
Spectroscopy Solutions

WAVELENGTH REFERENCE CELLS



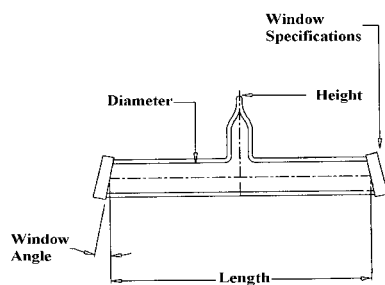
Physical Dimensions

Pyrex Cell:



Material:	Borofloat (Pyrex)
Body Thickness:	1.5mm
Stem Height:	<10mm
Window Angle:	0°
Window Type:	Flat
Window Thickness:	3.18mm
Window Surface	60 – 40
Quality:	Scratch & Dig

Quartz Cell:



Material:	7980 (Fused Silica)
Body Thickness:	2mm
Stem Height:	< 10mm
Window Angle:	12°
Window Type:	Wedged 2°
Window Thickness:	2mm
Window Surface	60 – 40
Quality:	Scratch & Dig

TECHNICAL and ORDERING INFORMATION

Triad Technology is a leading supplier of precision wavelength reference cells. Our wavelength reference cells are grouped in two categories: Vapor Cells and Gas Cells. Our standard vapor cells are natural Rubidium, Rubidium Isotope 85, Rubidium Isotope 87, Cesium, Iodine, Sodium, Water and Potassium. The purity level of the natural elements used in manufacturing all vapor cells is greater than 98%. Before shipping, all vapor cells are tested to ensure the optical quality of the cell's windows and to detect any impurity that may be present in the cell. Vapor cells are also provided back filled with Helium, Nitrogen or Neon gases. Our standard gas cells are Acetylene (Isotope 12 and 13), Hydrogen Cyanide (Isotope 12 and 13), Carbon Monoxide (Isotope 12 and 13), and Methane. All gas used in manufacturing have a purity level of greater than 99%. All cells are tested to ensure purity and correct gas pressure. Both vapor and gas wavelength reference cells are available in either Pyrex or quartz glass. Both our vapor and gas cells are available with Brewster angled windows. In addition to our standard fill vapors or gases, we have experience with manufacturing of several different cell fill materials: Ethane, Krypton, Ethylene, Lithium, Neon, Carbon Dioxide, Helium and Argon. If you have a wavelength reference cell requirement that is not listed, please call or email us. We can provide the exact cell you need at a reasonable price.

Part Numbers

Part Number ¹	Vapor/Gas Type	Pyrex Cell	Quartz Cell	Pressure
TT-RB-75-V-x	Rubidium Rb	25 x 75mm	21 x 75mm	na
TT-RB85-75-V-x	Rubidium Rb85	25 x 75mm	21 x 75mm	na
TT-RB87-75-V-x	Rubidium Rb87	25 x 75mm	21 x 75mm	na
TT-CS-75-V-x	Cesium Cs	25 x 75mm	21 x 75mm	na
TT-K-75-V-x	Potassium K	25 x 75mm	21 x 75mm	na
TT-NA-75-V-x	Sodium Na	25 x 75mm	21 x 75mm	na
TT-I2-100-V-x	Iodine I ²	25 x 100mm	21 x 100mm	na
TT-H2O-75-V-x	Water H ² O	25 x 75mm	21 x 75mm	na
TT-CH12-50-G-x	Acetylene ¹² C ₂ H ₂	10 x 50mm	11 x 50mm	50 Torr.
TT-CH13-50-G-x	¹³ C ₂ H ₂	10 x 50mm	11 x 50mm	50 Torr.
TT-HCN12-100-G-x	Hydrogen Cyanide H ¹² C ¹⁴ N	10 x 75mm	11 x 75mm	100 Torr.
TT-HCN13-100-G-x	H ¹³ C ¹⁴ N	10 x 75mm	11 x 75mm	100 Torr.
TT-CO12-600-G-x	Carbon Monoxide ¹² C ¹⁶ O	10 x 100mm	11 x 100mm	600 Torr.
TT-CO13-600-G-x	¹³ C ¹⁶ O	10 x 100mm	11 x 100mm	600 Torr.
TT-CH4-200-G-x	Methane CH ₄	10 x 50mm	11 x 50mm.	400 Torr.

Note 1: x = P for Pyrex Cell or Q for Quartz cell