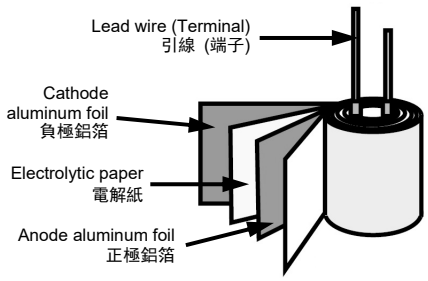
BASIC CONSTRUCTION OF ALUMINUM ELECTROLYTIC CAPACITORS
鋁電解電容器的基本結構

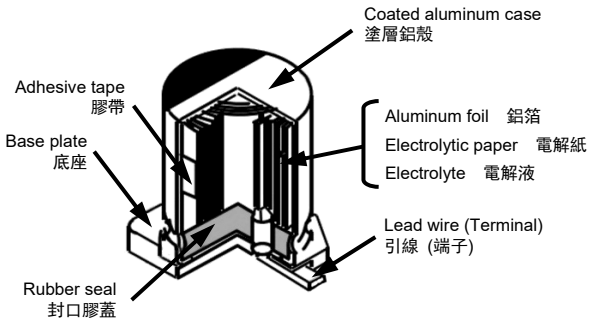
An aluminum electrolytic capacitor is manufactured by impregnating the capacitor element with an electrolyte and enclosing it with an aluminum case and sealing materials. The type of terminal and sealant structure are different for each product type. Basic structures are shown in the figure below: Chip Type, Radial Lead Type and Snap-in Terminal Type. Chip type have a shape in which the lead wires are processed and a seat plate is attached so as to accommodate surface mounting. Snap-in terminal type have a tab connected to the sealing plate with snap-in terminal instead of lead wire, and then sealed by the sealing plate.

鋁電解電容器的生產流程為：將電容器芯子浸漬電解液，再裝入鋁殼並搭配密封件進行封裝。不同產品類型的端子形式與密封結構各不相同，基本結構如下圖的貼片式、引線式和導箔式所示。貼片式產品會對引線做特殊加工，並加裝底座，以滿足表面貼裝使用要求。導箔式產品無傳統引線，採用牛角端子將引片與密封蓋板相連，再通過密封蓋板完成封裝。鋁電解電容器是由正極與負極鋁箔鉚上正極與負極端子，再和電解紙一起捲繞成芯子，浸漬電解液後用鋁殼封裝而成。

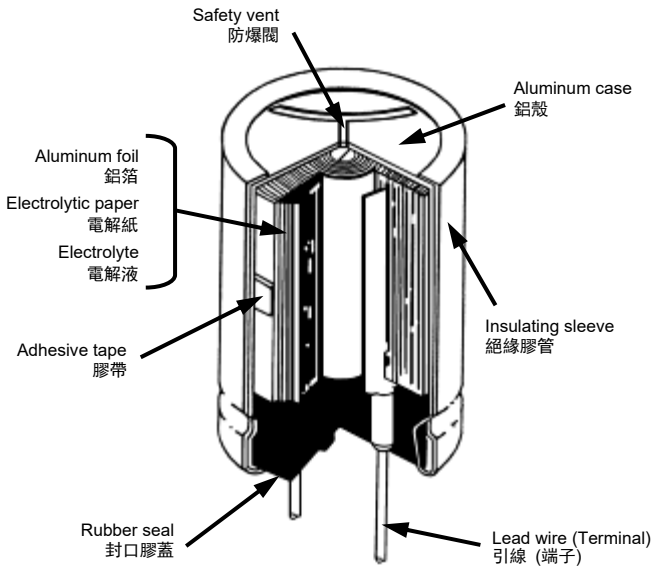
● Internal Structure 內部結構



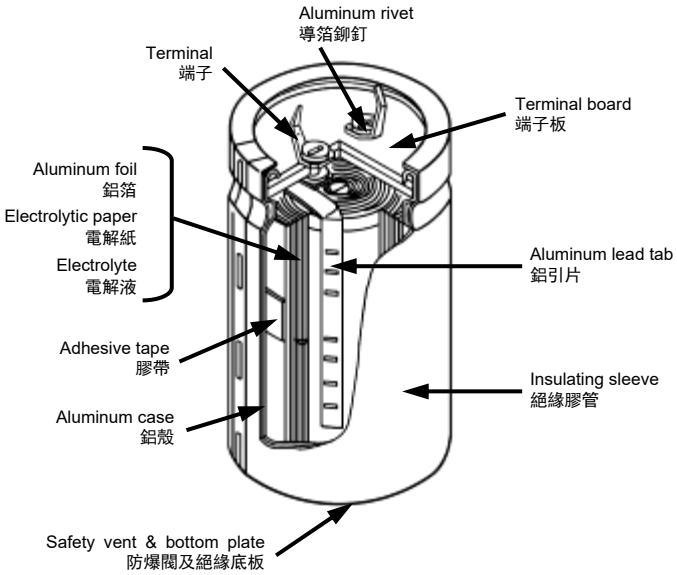
(Basic model of element 芯子基本結構)



(Chip type 貼片式)



(Radial lead type 引線式)



(Snap-in terminal type 導箔式)

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.
注：以上所提供的設計及特性參數僅供參考，任何修改不作預先通知。如果在使用上有疑問，請在採購前與我們聯繫，以便提供技術上的協助。