

# A Study on International Business Supplier Evaluation System of Passive Component

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## ABSTRACT

With the rapid development of global hi-tech industry, the manufacturing industry is facing pressures from technology innovation, cost reduction, quality improvement and delivery times shortening. In order to grasp business opportunities and to get leadership positions in the market, enterprises have to establish effective supplier selection mechanisms to create competitive advantages. The passive components are widely used in electronic products. They are indispensable parts with multiple supply sources and the competition in this industry is intensive. The quality of supplier may have affects on corporate image and strategies in making production plans. Through exploration on references and data aggregation, this study takes quality, technology, costs, delivery and response service as the five facets of selection. Then criterions for each facet were selected base on experts' opinions. After the application of questionnaire in selected people having practical experiences in dealing with passive components, analytic hierarchy process (AHP) was applied to calculate the weights of each criterion. The weights of the second layer of architecture and the third layer of architecture were listed base on the results of questionnaire analysis. The architecture constructed by this study can provide fair and objective reference to the selection of passive components suppliers and can serve as more accurate selection indexes.

Keywords : supplier evaluation ; passive component ; AHP

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