

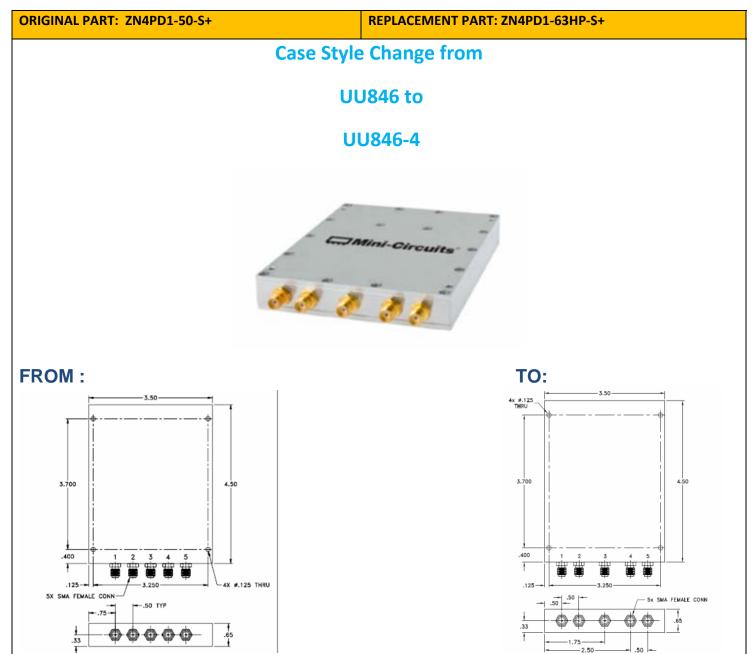


## REPLACEMENT PART REFERENCE GUIDE, ZN4PD1-50-S+ AN-10-008

ORIGINAL PART: ZN4PD1-50-S+ REPLACEMENT PART: ZN4PD1-63HP-S+

Replacement Part has been judged by Mini-Circuits Engineering as a suitable replacement to Original Parta

### **MECHANICAL DIMENSIONS**





## **APPLICATION NOTE**

ORIGINAL PART: ZN4PD1-50-S+ REPLACEMENT PART: ZN4PD1-63HP-S+

In new outline UU846-4, connectors at location 1 and 2 are moved on left side by .250"(6.35mm) and 4 and 5 are moved on right side by .25" (6.35 mm).

### Internally, PCB material is change from OAK to TLP.

#### **CONCLUSION:**

#### 1) **FUNCTIONAL COMPATIBLE**<sub>a</sub>:

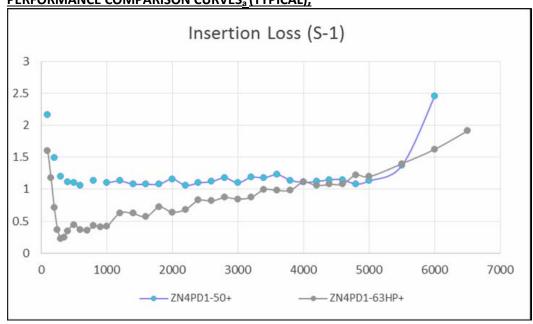
Following is a summary of changes/improvements:

Typical performance: See paragraphs 2 and 3

Min/Max Specifications - see below:

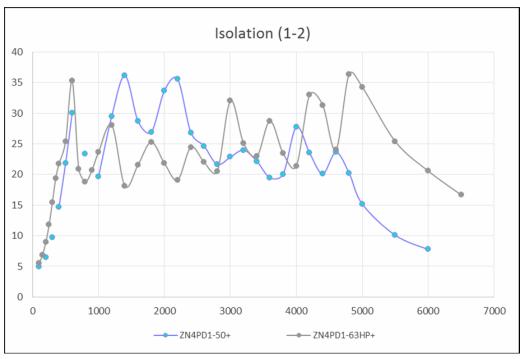
Parameter	Original Part ZN4PD1-50-S+	Replacement Part ZN4PD1-63HP-S+
Insertion Loss(max) @ 5000 MHz	1.8	1.5 typ
Isolation (Min) @ 5000 MHz	13	18
Phase unbalance (max)	8	6
Amplitude unbalance (max)	0.6	0.6
VSWR (Max)@ (typ)	1.3:1	1.25:1

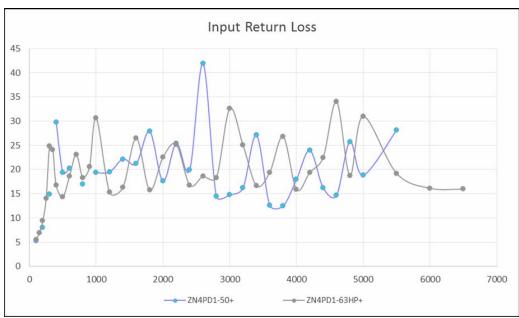
#### 2) PERFORMANCE COMPARISON CURVES (TYPICAL),





# **APPLICATION NOTE**







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