

 13 Neptune Ave.
 Brooklyn NY 11235

 Tel. (718) 934-4500
 Fax. (718) 332-4661
 Website: www.minicircuits.com

# **PRODUCT CHANGE NOTICE** PCN Form (D4-E000-73)

# EOL/PCN#22-007

### NOTIFICATION DATE: May 5, 2022

## **MODEL(S) AFFECTED:**

Existing Model:	Replacement Model:			
RBP-650+	<u>RBP-650A+</u>			

### **EXTENT OF CHANGE:**

End-of-Life

### EFFECT OF CHANGE:

- No change to **FIT** (dimension)
- No change in **FORM** (appearance) 0
- There is change in FUNCTION (performance) due to change in schematic. Redesigned the model and 0 introduced as RBP-650A+. Refer Replacement Guide attached for details

### **REASON FOR CHANGE:**

End of life to overcome the difficulties in assembly process and to improve efficiency.

### EFFECTIVE DATE OF CHANGE

Immediate

### **ATTACHMENTS:**

Replacement Guide AN-75-026

### **QUESTIONS?**

### PLEASE CONTACT US.

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Attachment to EOL/PCN#22-007

AN-75-026

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# REPLACEMENT PART REFERENCE GUIDE, RBP-650+

**Original Part** RBP-650+ Replacement Part RBP-650A+

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

Case Style: GP731

## MECHANICAL DIMENSIONS

Replacement part uses same case style as original part.

### CONCLUSION:

### 1) FORM-FIT-FUNCTIONAL ANALYSIS:

The Replacement Part is Form, Fit compatible. There is minor change in Function (Performance) due to change in functional schematic.

Functional schematic comparison:



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## 2) TYPICAL PERFORMANCE COMPARISON AT ROOM TEMPERATURE:

			Original Part: RBP-650+,		Replacement Part: RBP-650A+,			
Parameter		Frequency	25 units data			25 units data		
		MHz	Min	Max	Mean	Min	Max	Mean
Pass band	Insertion loss, dB	624 - 680	4.20	5.03	4.65	4.26	4.71	4.46
Stop band	Insertion loss, dB	520	41.51	52.49	45.16	37.03	38.89	37.48
		550	24.61	29.92	27.36	28.15	30.06	28.62
		760	24.16	28.92	26.16	29.1	31.23	30.42
		810 - 1000	35.58	40.26	38.59	40.04	41.69	40.87
Pass band	Return loss, dB	624 - 680	6.51	10.80	7.88	11.84	20.63	16.85

### 3) TYPICAL PERFORMANCE GRAPHS AT ROOM TEMPERATURE:

RBP-650+



Replacement Part: RBP-650A+

Original Part:

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