

APPLICATION NOTE

REPLACEMENT PART REFERENCE GUIDE:

AN-80-008

ORIGINAL PART: REPLACEMENT PART:

RSW-2-25P+ RSW-2-25PA+

This replacement part has been judged by Mini-Circuits Engineering as a suitable replacement part for the existing RSW-2-25P+. As a result of die obsolescence of the original design, the re-design effort includes the use of the new die in package mounted on an interface PC board to enable functional replacement while maintaining existing PCB footprint.

APPLICATION CIRCUITS, CASE STYLES & FOOT PRINT





APPLICATION NOTE

CONCLUSION:

- 1) FORM-FIT-FUNCTIONAL COMPATIBLE: Similar Circuit and PCB Layout.
- 2) TYPICAL PERFORMANCE COMPARISON a:

		RSW-2-25PA+	RSW-2-25P+
	Condition (MHz)	Average	Average
Insertion Loss (dB)	1 to 100	0.5	0.6
	100 to 1000	0.6	0.7
	1000 to 2000	0.9	0.9
	2000 to 2500	1.1	1.0
Isolation RF-IN to RF-OUT (dB)	1 to 100	80	84
	100 to 1000	54	52
	1000 to 2000	44	50
	2000 to 2500	34	39
Isolation RF-OUT to RF-OUT			
(dB)	1 to 100	83	85
	100 to 1000	57	53
	1000 to 2000	42	51
	2000 to 2500	32	40
Return Loss RF-IN (dB)	1 to 100	27	25
	100 to 1000	24	25
	1000 to 2000	17	20
	2000 to 2500	15	15
Return Loss RF-OUT (ON) (dB)	1 to 100	27	26
	100 to 1000	25	27
	1000 to 2000	18	22
	2000 to 2500	17	16
Return Loss RF-OUT (OFF)			
(dB)	1 to 100	2.5	0.0
	100 to 1000	3.4	0.1
	1000 to 2000	3.7	0.4
	2000 to 2500	3.8	0.6
Switching Time (ns)			
Rise/Fall Time		3	12
ON/OFF Time		14	29

Notes:

a. Suitability for model replacement within a particular system must be determined by and is solely the responsibility of the customer based on, among other things, electrical performance criteria, stimulus conditions, application, compatibility with other components and environmental conditions and stresses.

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APPLICATION NOTE

COMPARISON PERFORMANCE CURVESa:



Notes:

a. Suitability for model replacement within a particular system must be determined by and is solely the responsibility of the customer based on, among other things, electrical performance criteria, stimulus conditions, application, compatibility with other components and environmental conditions and stresses.



APPLICATION NOTE

COMPARISON PERFORMANCE CURVES_a (Continued):



Notes:

a. Suitability for model replacement within a particular system must be determined by and is solely the responsibility of the customer based on, among other things, electrical performance criteria, stimulus conditions, application, compatibility with other components and environmental conditions and stresses.



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