


REPLACEMENT PART REFERENCE GUIDE, FW-5+

AN-70-110

ORIGINAL PART:	FW-5+	
REPLACEMENT PART:	FW-5A+	

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

MECHANICAL DIMENSIONS

Case Style: FF704

Replacement part uses same case style as original part.

CONCLUSION:

1) FORM-FIT-FUNCTIONAL ANALYSIS_a:

The Replacement Part is Form, Fit compatible.

Following is a summary of changes/improvements in the Specification:

Parameter	Frequency (MHz)	FW-5+	FW-5A+
Attenuation (dB)(Typ)	10	5	5
Attenuation (dB)(Typ)	DC-3000	5.15	5.15
Attenuation (dB)(Typ)	3000-8000	5.4	5.3
Attenuation (dB)(Typ)	8000-12000	5.7	5.5
VSWR(:1) (Typ)	DC-3000	1.05	1.10
VSWR(:1) (Typ)	3000-8000	1.15	1.15
VSWR(:1) (Typ)	8000-12000	1.30	1.20
Input Power	DC-12000	1W	1.4W *

*RF power at 25°C is 1.4W; De-rate linearly to 1.0W at 85°C

For typical performance: See paragraph 2

2) TYPICAL PERFORMANCE COMPARISON AT ROOM TEMPERATURE:

MODEL: FW-5+, FW-5A+ (RF Parameters); Data of 7 samples

Parameter	Frequency (MHz)		FW-5+			FW-5A+		
	Low	High	Min	Avg	Max.	Min	Avg	Max.
Attenuation(dB)	10		4.89	5.1	5.18	4.90	4.91	4.91
	10	3000	4.89	5.04	5.19	4.9	5.02	5.14
	3000	8000	5.19	5.33	5.46	5.11	5.23	5.34
	8000	12000	5.45	5.53	5.61	5.32	5.41	5.5
Return Loss (dB)	10	3000	28.67	33.27	41.13	22.97	24.67	27.09
	3000	8000	24.64	29.52	34.43	22.64	24.45	26.82
	8000	12000	20.72	25.92	33.25	23.45	28.52	33.56
VSWR (:1)	10	3000	1.02	1.04	1.08	1.09	1.12	1.15
	3000	8000	1.04	1.07	1.12	1.10	1.13	1.16
	8000	12000	1.04	1.11	1.20	1.04	1.08	1.14

© 2015 Mini-Circuits

IMPORTANT NOTICE

This document is provided as an accommodation to Mini-Circuits customers in connection with Mini-Circuits parts only. In that regard, this document is for informational and guideline purposes only. Mini-Circuits assumes no responsibility for errors or omissions in this document or for any information contained herein.

Mini-Circuits may change this document or the Mini-Circuits parts referenced herein (collectively, the "Materials") from time to time, without notice. Mini-Circuits makes no commitment to update or correct any of the Materials, and Mini-Circuits shall have no responsibility whatsoever on account of any updates or corrections to the Materials or Mini-Circuits' failure to do so. Mini-Circuits customers are solely responsible for the products, systems, and applications in which Mini-Circuits parts are incorporated or used. In that regard, customers are responsible for consulting with their own engineers and other appropriate professionals who are familiar with the specific products and systems into which Mini-Circuits' parts are to be incorporated or used so that the proper selection, installation/integration, use and safeguards are made. Accordingly, Mini-Circuits assumes no liability therefore.

In addition, your use of this document and the information contained herein is subject to Mini-Circuits' standard terms of use, which are available at Mini-Circuits' website at www.minicircuits.com/homepage/terms_of_use.html.

Mini-Circuits and the Mini-Circuits logo are registered trademarks of Scientific Components Corporation d/b/a Mini-Circuits. All other third-party trademarks are the property of their respective owners. A reference to any third-party trademark does not constitute or imply any endorsement, affiliation, sponsorship, or recommendation: (i) by Mini-Circuits of such third-party's products, services, processes, or other information; or (ii) by any such third-party of Mini-Circuits or its products, services, processes, or other information.