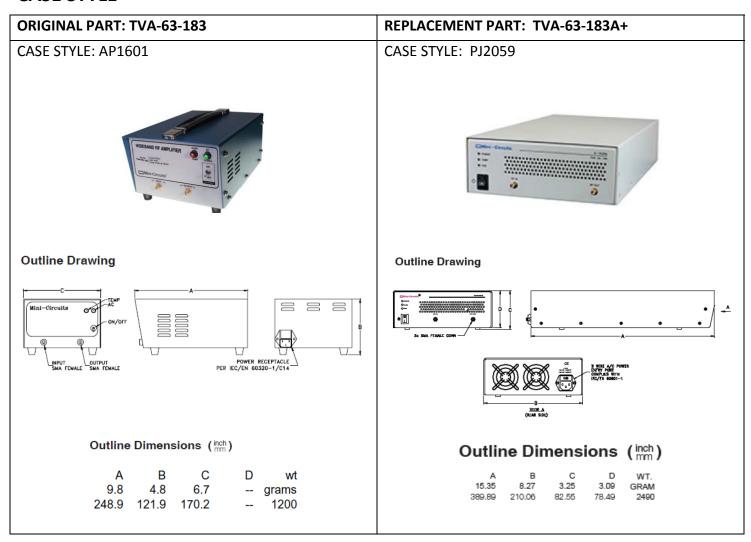


TVA-63-183A+ PCN Report

AN-60-080

As a result of the introduction of RoHS compliant version and assembly option at an alternate qualified Mini-Circuits facility, the replacement part has been judged by the Mini-Circuits Engineering team as a suitable replacement for the existing $TVA-63-183_a$.

CASE STYLE



a. Suitability 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.



CONCLUSION:

- 1) FIT and FORM change for RoHS version
- 2) FUNCTIONAL changes as follows:

Parameter	Original Part, TVA-63-183	Replacement Part, TVA-63-183A+	
Gain	20dB min, 23.6dB typ	20dB min, 24dB typ	
Gain Flatness	+/-1dB typ	yp +/-1.5dB typ	
P1dB	16dBm min, 18dBm typ	15dBm min, 17dBm typ	
Noise Figure	6.9dB typ	6.4dB typ	

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3) TYPICAL PERFORMANCE COMPARISON_a: T_{AMB}=25°C

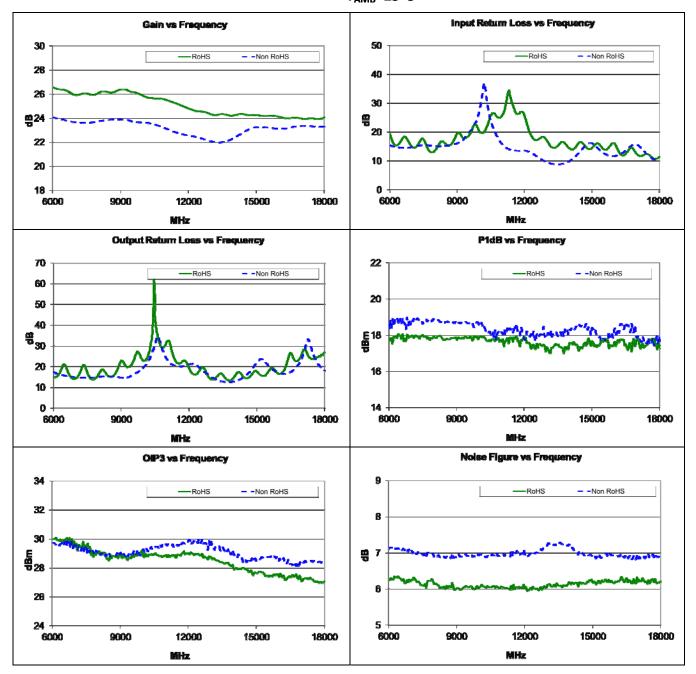
Parameter	Freq (MHz)	Non RoHS (TVA-63-183)		RoHS (TVA-63-183A+)	
		Data of	1 unit	Data o	of 2 units
		Min	Max	Min	Max
Gain (dB)	6000-18000	21.98	24.06	23.51	26.57
Gain Flatness (dB)	6000-18000		+/-1.04		+/-1.49
Input VSWR (:1)	6000-18000		2.15		2.05
Output VSWR (:1)	6000-18000		1.6		1.54
P1dB (dBm)	6000-18000	17.48		17.06	
OIP3 (dBm)	6000-18000	28.26		26.97	
Noise Figure (dB)	6000-18000		7.28		6.4
AC Supply (V)			110/220		110/220

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COMPARISON PERFORMANCE CURVESa:

T_{AMB}=25°C



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