

PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

PCN#21-053

NOTIFICATION DATE: November 4, 2021

MODELS AFFECTED:

Existing Model:	Replacement Model:
ZX60-06203LN+	<u>ZX60-06203ALN+</u>

EXTENT OF CHANGE:

Transition of product based on performance change to internal component

EFFECT OF CHANGE:

- No Change to **FIT** (Dimensions), or **FORM** (Appearance)
- Change to **Function** (Performance)
- Change of performance leading to Obsoleting of **ZX60-06203LN+** and replacement with **ZX60-06203ALN+** (See Replacement Guide)

REASON FOR CHANGE:

Change of performance of internal component

EFFECTIVE DATE OF CHANGE:

Limited supply of ZX60-06203LN+ available. Contact Account Manager

ATTACHMENTS:

Replacement Guide

QUESTIONS?**[PLEASE CONTACT US.](#)**

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Attachment to **PCN#21-053**

REPLACEMENT PART REFERENCE GUIDE

ORIGINAL PART: ZX60-06203LN+
REPLACEMENT PART: ZX60-06203ALN+



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

CONCLUSIONS:

1) **FORM-FIT-FUNCTION Compatible:** Replacement part is Form, Fit compatible.

2) **PERFORMANCE COMPARISON ON ORIGINAL VS. REPLACEMENT**

Electrical Parameters	Frequency (MHz)		Original Specs ZX60-06203LN+			Replacement ZX60-06203ALN+			ZX60-06203ALN+		
	From	To	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Avg.	Max.
GAIN (dB)	6000	8000		16.9			21.0		20.14	21.07	21.89
	8000	12000		18.3		16.0	20.0		20.01	20.6	21.19
	12000	16000	13.0	18.6		16.0	20.0		20.3	20.81	21.34
	16000	18000	15.0	18.4		15.0	20.0		19.16	20.54	21.35
	18000	20000		15.3			17.0		15.95	17.73	19.7
INPUT R. LOSS (dB)	6000	8000		14.0			12.0		9.89	13.38	17.29
	8000	12000		13.0			11.0		9.69	13.26	16.98
	12000	16000		7.5			8.0		6.88	9.14	14.12
	16000	18000		10.0			12.0		9.75	14.55	19.57
	18000	20000		7.5			14.0		12.12	16.65	27.62
OUTPUT R. LOSS (dB)	6000	8000		14.0			9.0		7.74	9.58	11.67
	8000	12000		10.5			12.0		9.92	14.57	26.23
	12000	16000		12.2			14.0		9.87	17.6	66.53
	16000	18000		12.0			15.0		10.83	20.09	56.45
	18000	20000		10.0			10.0		7.82	12.95	22.68
Pout AT 1(dB) COMPRESSION (dBm)	6000	8000		15.4			14.0		12.77	14.46	15.6
	8000	12000		16.0			15.0		14.63	15.91	16.71
	12000	16000		16.0			15.0		14.3	15.55	16.7
	16000	18000		15.0			15.0		14.3	15.11	15.78
	18000	20000		14.7			15.0		14.85	15.76	16.42
OUTPUT IP3 LOWER SIDEBAND (dBm)	6000	8000		26.3			25.0		23.87	25.66	27.1
	8000	12000		26.2			26.0		26.32	27.53	28.68
	12000	16000		27.4			26.0		24.77	26.88	28.55
	16000	18000		29.3			26.0		24.92	26.3	27.4
	18000	20000		29.7			27.0		26.19	27.48	28.35
NOISE FIGURE (dB)	6000	8000		2.5			2.2		1.9	2.14	2.52
	8000	12000		2.6			2.2		1.95	2.14	2.41
	12000	16000		2.9			2.7		2.12	2.69	3.4
	16000	18000		2.8			2.9		2.63	2.95	3.31
	18000	20000		3.4			3.2		2.85	3.14	3.65
Current mA				128	150		110	150			

Note: 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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3) PERFORMANCE COMPARISON CURVES ON ORIGINAL VS. REPLACEMENT (VDD = 5V)

