

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

EOL/PCN#23-030

NOTIFICATION DATE: November 10, 2023

MODELS AFFECTED:

Mini-Circuits PN:	Suggested Replacement Model:	Replacement Guide:
NCS3-272+	NCS2-33+	Please see pages 2 through 5

EXTENT OF CHANGE:

Parameter	Original Part (NCS3-272+)	Suggested Replacement Model (NCS2-33+)
Impedance Ratio (Secondary/Primary)	3	2
Frequency Range	2250 – 2725 MHz	1500 – 3100 MHz
Average Insertion Loss	1dB max	1dB max
Amplitude Unbalance	0.4db typ.	0.6dB typ.
Phase Unbalance	3 degrees typ.	5 degrees typ.
Operating Temperature	-40C to +85C	-40C to +85C
Storage Temperature	-50C to 100C	-50C to 100C
RF Power	3W max	3W max

EFFECT OF CHANGE:

Change to FORM (Appearance), minor change to FIT (height dimension) not affecting device footprint and FUNCTION (Performance) specification changed to reflect performance

REASON FOR CHANGE:

Change to reflect production performance.

EFFECTIVE DATE OF CHANGE:

Immediate

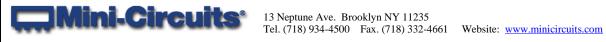
ATTACHMENTS: Replacement Guide on pages 2-5.

QUESTIONS?

PLEASE CONTACT US.

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APPLICATION NOTE

REPLACEMENT PART REFERENCE GUIDE, NCS3-272+

ORIGINAL PART:		
REPLACEMENT PART:		

NCS3-272+ NCS2-33+



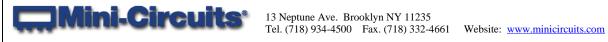
Suggested replacement part has been judged by Mini-Circuits Applications as a close replacement to Original Parte

MECHANICAL DIMENSIONS & PCB LAND PATTERN

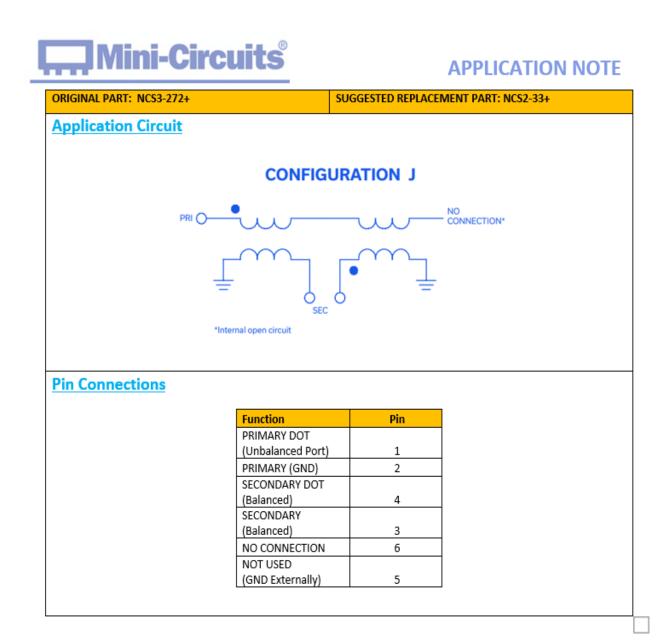
ORIGINAL PART: NCS3-272+		SUGGESTED REPLACEMENT PART: NCS2-33+		
GE0805C-9	H TYP	GE0805C-1		
F ± 88 TYP	Suggested Layout, Tolerance to be within 2.002	F ± 388 TYP		
CASE# A B C D E F	G H J K WT.GRAM	CASE # A B C D E F G H J K WT. GRAM GE0805C-1 079 049 033 014 012 012 026 014 039 110 008 GE0805C-1 079 049 033 014 012 012 026 014 039 110 008		
GE0805C-9 J/97 J/97 J/15 J/14 J/12	0.05 0.14 0.09 1.10 0.08 (0.05) (0.35) (1.00) (2.80)	GE0805C-1 (2.00) (1.25) (0.34) (0.35) (0.30) (0.35) (1.00) (2.80) .005 Dimensions are in inches (mm). Tolerances: 2PL ± .01; 3 PL ± .005 .005 .015 .016 .005 .015 .016 .005		
Marking		Marking		
N/A		N/A		

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APPLICATION NOTE

CONCLUSIONS:

1) FORM-FIT-FUNCTION COMPATIBLE .:

The suggested replacement part is Form and Fit compatible. Following is a summary of electrical changes/improvements:

Typical performance: See Paragraphs 2 and 3

Min/Max Specifications seen below,

Parameter	Original Part (NCS3-272+)	Suggested Replacement Part (NCS2-33+)
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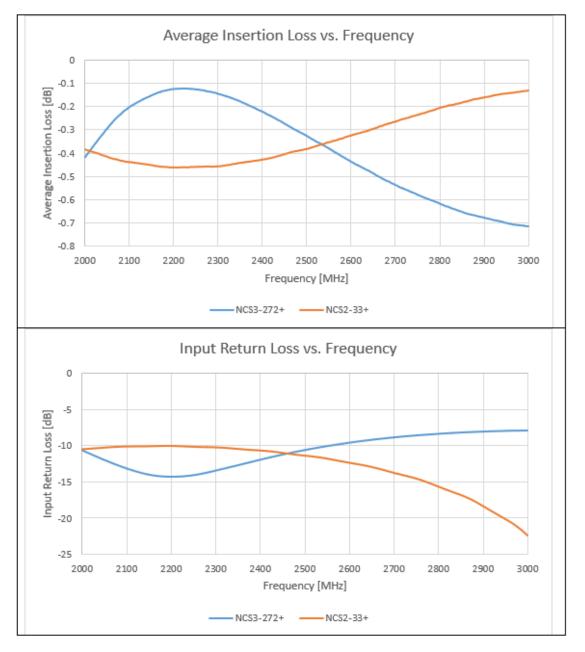
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2) PERFORMANCE COMPARISON CURVES ON ORIGINAL VS. SUGGESTED REPLACEMENT

Original Suggested Replacement

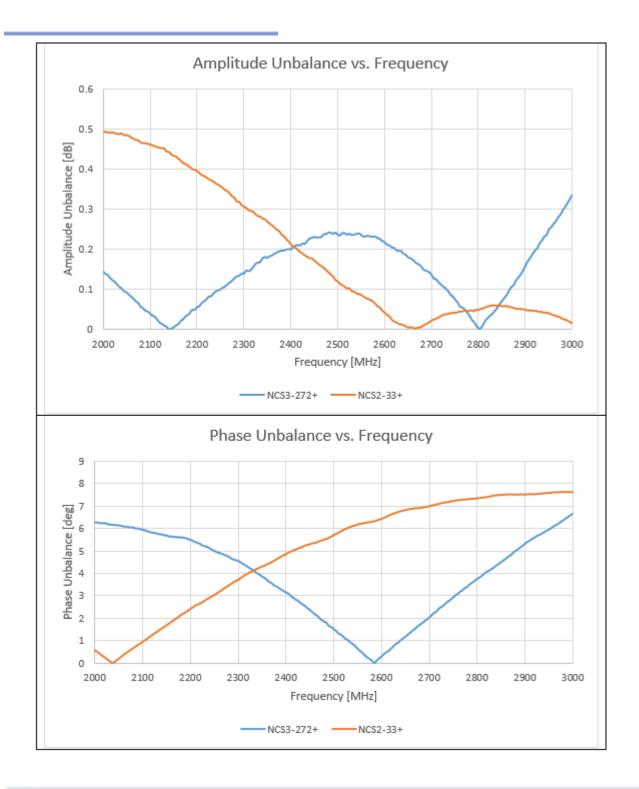


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