

PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

PCN#19-049-10

NOTIFICATION DATE: April 25, 2019

MODEL(S) AFFECTED:

MMIC Devices using Package types:

MAV, MCLP, MXC, MXP, SOIC, SOT-143, SOT-23, SOT-89 (see attached list for specific models)

EXTENT OF CHANGE:

 Replacement of existing SnAgNi (tin-silver over nickel) plating with industry standard 100% Matte-Tin for RoHS + suffix part numbers

EFFECT OF CHANGE:

- No change to FIT (dimensions) or FUNCTION (electrical or process performance)
- Change to FORM in the surface plating used to interface with customer assembly
- Surface plating for affected models is evaluated and qualified per our standard process for solderability, joint reliability and tin whisker and is already in use with other existing Mini-Circuits MMIC products.

REASON FOR CHANGE:

Existing plating supplier shut-down, SnAgNi is unique to this supplier. Matte tin is a well-established RoHS compliant finish in the industry, and currently used extensively at Mini-Circuits on other MMIC products. Mini-Circuits will offer SnPb plating as a customer special for those with 'No Pure Tin' restrictions. Contact Sales for quoted delivery.

EFFECTIVE DATE OF CHANGE:

- Immediate based on exhaustion of stock or customer request
- For Samples if required, please contact your account manager or click on "<u>Contact Us</u>" to be contacted by a Mini-Circuits customer service representative

LAST TIME BUY OF EXISTING SnAgNi PLATED PARTS:

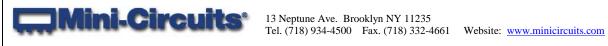
Acceptance of Last Time Buy Orders (as defined below) is subject to availability of existing SnAgNi plated parts ("Existing Parts") as determined by Mini-Circuits. All Last Time Buy Orders are non-cancellable and non-returnable. For purposes hereof, the term "Last Time Buy Orders" refers to orders for Existing Parts that are placed with Mini-Circuits on or after the notification date of this product change notice.

ATTACHMENTS:

List of applicable models

Frequently Asked Questions and Qualification Report for the matte tin finish

QUESTIONS? PLEASE CONTACT US.



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Attachment to PCN#19-049-10

** List of Affected Models **			
D18PA+	GALI-1-10+	GALI-1-17+	GALI-19-4+
D19GA+	GALI-1-13+	GALI-19+	GALI-2+
EP2K1+	GALI-1-14+	GALI-19-2+	
GALI-1+	GALI-1-16+	GALI-19-3+	

Refer to Procedure: D3-E040