



KYOCERA AVX Components Corporation

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Attention:

Distribution partners

New Product Notification

[W4 Family]

Dear Valued Customer,

Thank you very much for your great and continuous support for business with KYOCERA AVX. This is the official notification about the introduction of the newly released W4 Family to substitute the W3 Family with the cable on the side. Please review and indicate your feedback for this Notice in writing. Your understanding and support are highly appreciated.

Date of New W4 Product Availability: May 8th, 2024

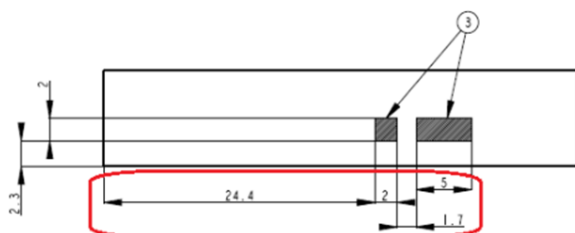
We would like to inform you about the newly released W4 Family of Wi-Fi antennas compatible with the W3 Family with the cable on the side (W3P42X8 series). The W4 Family has improved RF performance and therefore we recommend transferring the [W3 Family with the cable on the side \(W3P42X8 series\) to NRND \(Not Recommended for New Design\)](#).

The new W4 Family has the same size as W3 Family with the cable on the side (42 x 8 mm), with a minor difference is on the feed point and silk screen.

W3 Family:

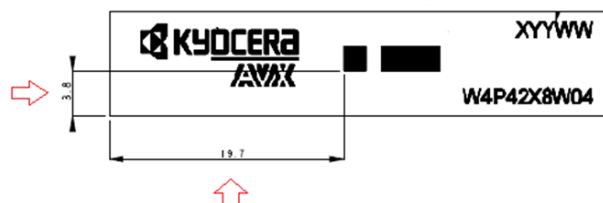
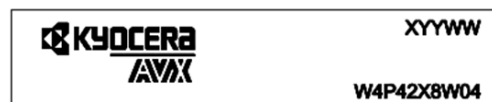


2.1 SILK SCREEN



2.2 SOLDER-MASK TOP (NEGATIVE)

W4 Family:



The RF performance of W4 Family is improved, with better efficiency in the 2.4 GHz band and the addition of the 6GHz band for Wi-Fi 6E/7, as shown below:

W3 Family:

Frequency Band (GHz)	2.400– 2.500	5.150– 5.900
Return Loss	< -4.5 dB	< -7.4 dB
Average Efficiency	38 %	63 %
Peak Gain	< -1 dBi	< -1 dBi

W4 Family:

Frequency Band (GHz)	2.400– 2.480	5.150– 5.850	5925 - 7125
Return Loss	< -16 dB	< -12 dB	< -12 dB
Average Efficiency	74 %	71 %	64%
Peak Gain	1.7 dBi	3.4 dBi	4.2 dBi

The W3 Family with the cable on the side will still be available for the customers that have certified their devices with this family. However, we recommend using W4 Family for new designs and strongly recommend removing the W3 Family with the cable on the side from online filters or webpages and replacing it with the W4 Family, as shown on the table below:

Part Number Cross-reference List:

W3 Family parts	W4 Family parts
W3P42X8F04-H050D3B0T	W4P42X8F04-H050D3B0T
W3P42X8F04-H100D3B0T	W4P42X8F04-H100D3B0T
W3P42X8F04-H150D3B0T	W4P42X8F04-H150D3B0T
W3P42X8F04-H200D3B0T	W4P42X8F04-H200D3B0T
W3P42X8F04-H250D3B0T	W4P42X8F04-H250D3B0T
W3P42X8F04-H300D3B0T	W4P42X8F04-H300D3B0T
W3P42X8F04-U050D3B0T	W4P42X8F04-U050D3B0T
W3P42X8F04-U100D3B0T	W4P42X8F04-U100D3B0T
W3P42X8F04-U150D3B0T	W4P42X8F04-U150D3B0T
W3P42X8F04-U200D3B0T	W4P42X8F04-U200D3B0T
W3P42X8F04-U250D3B0T	W4P42X8F04-U250D3B0T
W3P42X8F04-U300D3B0T	W4P42X8F04-U300D3B0T
W3P42X8F04-W050D1B0T	W4P42X8F04-W050D1B0T
W3P42X8F04-W100D1B0T	W4P42X8F04-W100D1B0T
W3P42X8F04-W150D1B0T	W4P42X8F04-W150D1B0T
W3P42X8F04-W200D1B0T	W4P42X8F04-W200D1B0T
W3P42X8F04-W250D1B0T	W4P42X8F04-W250D1B0T
W3P42X8F04-W300D1B0T	W4P42X8F04-W300D1B0T
W3P42X8W04-H050D3B0A	W4P42X8W04-H050D3B0A
W3P42X8W04-H100D3B0A	W4P42X8W04-H100D3B0A
W3P42X8W04-H150D3B0A	W4P42X8W04-H150D3B0A
W3P42X8W04-H200D3B0A	W4P42X8W04-H200D3B0A
W3P42X8W04-H250D3B0A	W4P42X8W04-H250D3B0A
W3P42X8W04-H300D3B0A	W4P42X8W04-H300D3B0A
W3P42X8W04-U050D3B0A	W4P42X8W04-U050D3B0A
W3P42X8W04-U100D3B0A	W4P42X8W04-U100D3B0A

W3P42X8W04-U150D3B0A	W4P42X8W04-U150D3B0A
W3P42X8W04-U200D3B0A	W4P42X8W04-U200D3B0A
W3P42X8W04-U250D3B0A	W4P42X8W04-U250D3B0A
W3P42X8W04-U300D3B0A	W4P42X8W04-U300D3B0A
W3P42X8W04-W050D1B0A	W4P42X8W04-W050D1B0A
W3P42X8W04-W100D1B0A	W4P42X8W04-W100D1B0A
W3P42X8W04-W150D1B0A	W4P42X8W04-W150D1B0A
W3P42X8W04-W200D1B0A	W4P42X8W04-W200D1B0A
W3P42X8W04-W250D1B0A	W4P42X8W04-W250D1B0A
W3P42X8W04-W300D1B0A	W4P42X8W04-W300D1B0A
W3F42X8W01-H050D3B0C	W4F42X8W01-H050D3B0C
W3F42X8W01-H100D3B0C	W4F42X8W01-H100D3B0C
W3F42X8W01-H150D3B0C	W4F42X8W01-H150D3B0C
W3F42X8W01-H200D3B0C	W4F42X8W01-H200D3B0C
W3F42X8W01-H250D3B0C	W4F42X8W01-H250D3B0C
W3F42X8W01-H300D3B0C	W4F42X8W01-H300D3B0C
W3F42X8W01-U050D3B0C	W4F42X8W01-U050D3B0C
W3F42X8W01-U100D3B0C	W4F42X8W01-U100D3B0C
W3F42X8W01-U150D3B0C	W4F42X8W01-U150D3B0C
W3F42X8W01-U200D3B0C	W4F42X8W01-U200D3B0C
W3F42X8W01-U250D3B0C	W4F42X8W01-U250D3B0C
W3F42X8W01-U300D3B0C	W4F42X8W01-U300D3B0C
W3F42X8W01-W050D1B0C	W4F42X8W01-W050D1B0C
W3F42X8W01-W100D1B0C	W4F42X8W01-W100D1B0C
W3F42X8W01-W150D1B0C	W4F42X8W01-W150D1B0C
W3F42X8W01-W200D1B0C	W4F42X8W01-W200D1B0C
W3F42X8W01-W250D1B0C	W4F42X8W01-W250D1B0C
W3F42X8W01-W300D1B0C	W4F42X8W01-W300D1B0C
W3P42X8W01-U100D3B0C	W4P42X8W01-U100D3B0C

Thank you for your collaboration and support.

Contact:

Should you have any questions or concerns, please contact Jessica Dai at +1 (858) 550-6044 or email at jessica.dai@kyocera-avx.com

Thank you.

KYOCERA AVX Components Corporation

Carmen Redondo
Director, Global Marketing Antennas

May 17th, 2024

Customer feedback regarding the change notification:

Requests, Questions, Comments:

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Signature of Approval	
Date	
Title	
Name	
Company Name	