



5th generation mobile communication system compatible

5G  
24-29GHz

5G  
24-43GHz

# 5G antenna coupler

## FA-290 / FA-291 / FA-430 / FA-431

patent applied for

# EVM (rms) value 1% realized, 28 GHz / 43 GHz antenna coupler



Antenna coupler (FA-290) EVM with close close coupling  
(We are cooperating with Anritsu Corporation for measurement.)



EVM(rms)  
0.96%

# 5G antenna coupler

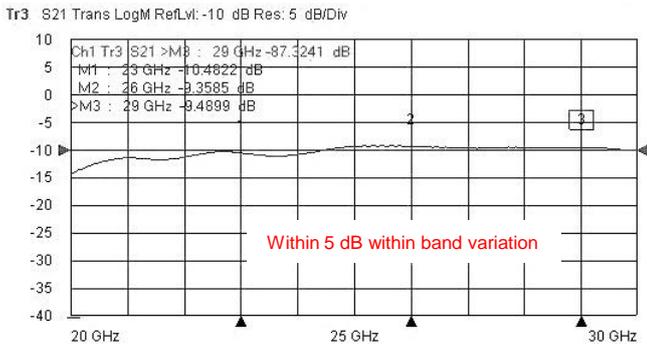
We focused on using the coupler closely in the object to be measured, flattening the in-band coupling characteristic at the time of close contact, and improving the disturbance of the reflection attenuation characteristics at the time of total reflection.

It has the feature of flattening the coupling characteristic and absorbing disturbance of VSWR at the time of total reflection.

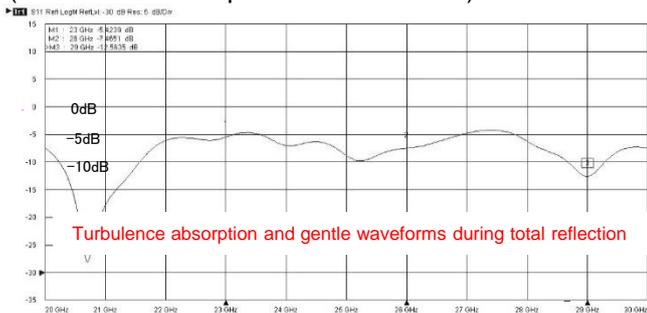
The EVM (RMS) value is dramatically improved, and it is effective for OTA measurement.

There are 28 GHz band model and 43 GHz band model.

◆ Binding properties (FA-290 counter-coupling)



◆ Return loss at full reflection (when t = 5 mm is placed on aluminum)



Measured by Anritsu Corporation MS46322B

◆ Common basic specification

Frequency band:	24 GHz to 29.5 GHz (FA-290 / FA-291)
	24 GHz to 43.5 GHz (FA-430 / FA-431)
V.S.W.R:	1.8 or less
EVM (RMS value):	1.2% or less (28.5 GHz)
Polarization wavefront:	linearly polarized wave
Transmission maximum power:	1W or less (CW time)
Connector:	2.92 mm-Jack
Exterior:	Flame retardant ABS resin (white)

◆ Appearance / Dimensions

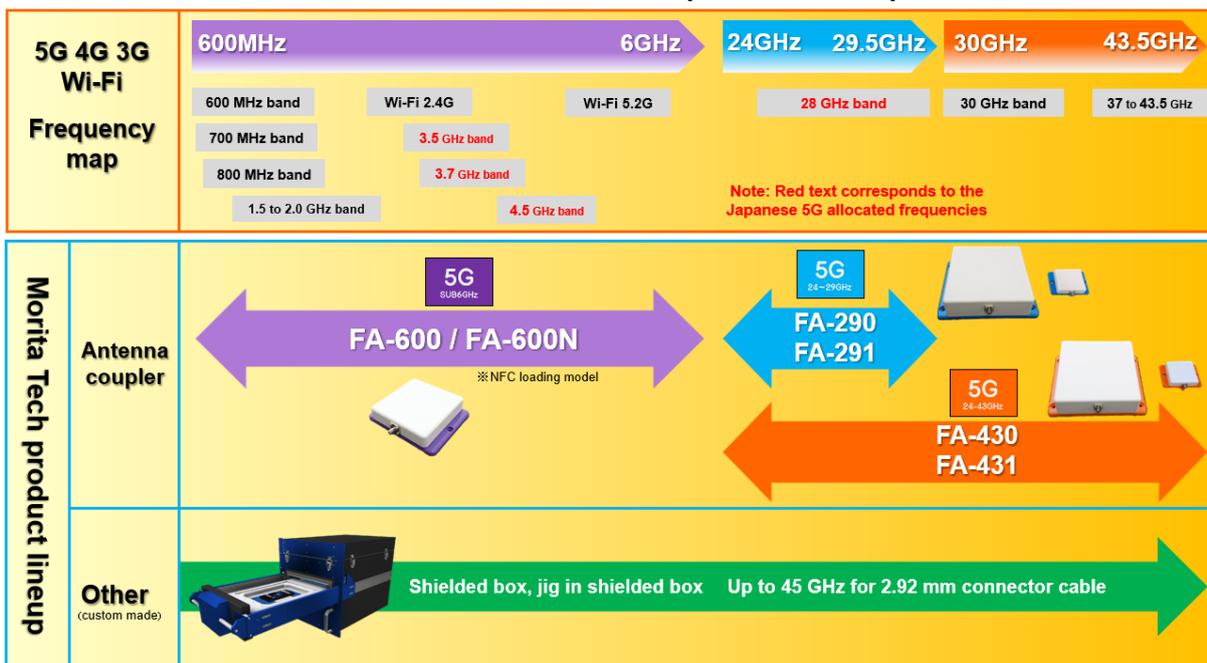


Large type (coupler effective size 80 x 80)	Small type (Coupler effective size 15 x 15)
Model number: FA-290 / FA-430	Model number: FA-291 / FA-431
Dimension: W156 x H45 x D 125 mm	Dimension: W 50.4 x H 27 x D 70.4 mm

Body color Blue:	24 GHz to 29.5 GHz
Body color Orange:	24 GHz to 43.5 GHz

◆ Introduction

## Morita Tech 5G component map



Specifications and appearance are subject to change without notice for improvement. Please note.