

Main Features

- Low VSWR, low insertion loss
- Low PIM, high reliability
- High power handling
- High directivity between output and coupling port
- Compact design for easy installation
- Customized connector is available
- Optional values for coupling port

Electrical Specifications

Items	Value	
Frequency	698-4200MHz	
VSWR / Return loss	≤ 1.25 / -19dB	
Attenuation values	Coupling attenuation	Distribution loss
3dB: DC-3-0642-43F-163-01	$3 \pm 1.2\text{dB}$	$\leq 3.8\text{dB}$
5dB: DC-5-0642-43F-163-01	$5 \pm 1.1\text{dB}$	$\leq 2.3\text{dB}$
6dB: DC-6-0642-43F-163-01	$6 \pm 1.1\text{dB}$	$\leq 1.7\text{dB}$
7dB: DC-7-0642-43F-163-01	$7 \pm 1.1\text{dB}$	$\leq 1.5\text{dB}$
8dB: DC-8-0642-43F-163-01	$8 \pm 1.3\text{dB}$	$\leq 1.5\text{dB}$
10dB: DC-10-0642-43F-163-01	$10 \pm 1.3\text{dB}$	$\leq 1.0\text{dB}$
12dB: DC-12-0642-43F-163-01	$12 \pm 1.3\text{dB}$	$\leq 1.0\text{dB}$
13dB: DC-13-0642-43F-163-01	$13 \pm 1.3\text{dB}$	$\leq 1.0\text{dB}$
15dB: DC-15-0642-43F-163-01	$15 \pm 1.3\text{dB}$	$\leq 0.5\text{dB}$
20dB: DC-20-0642-43F-163-01	$20 \pm 1.3\text{dB}$	$\leq 0.4\text{dB}$
25dB: DC-25-0642-43F-163-01	$25 \pm 1.6\text{dB}$	$\leq 0.4\text{dB}$
30dB: DC-30-0642-43F-163-01	$30 \pm 1.6\text{dB}$	$\leq 0.3\text{dB}$
35dB: DC-35-0642-43F-163-01	$35 \pm 1.8\text{dB}$	$\leq 0.3\text{dB}$
40dB: DC-40-0642-43F-163-01	$40 \pm 1.8\text{dB}$	$\leq 0.3\text{dB}$
Directivity	20dB	
Power handling	300W	
Intermodulation (3rd order)	$\leq -163\text{dBc}@2\text{x}43\text{dBm}$	
Impedance	50Ω	

Environmental Specifications

Items	Value
Operating temperature range	-30°C to +70°C
Storage temperature range	-40°C to +85°C
Relative humidity	0%- 95%
Barometric pressure	55KPa -106KPa
Applications	IP65

Mechanical Specifications

Items	Value
Dimension (For 3dB type)	127 x 44 x 36 (mm, excluding connectors and brackets)
Weight (For 3dB type)	0.5kg
Dimension (For other types)	128 x 49 x 30 (mm, excluding connectors and brackets)
Weight (For other types)	0.5kg
Connectors type	4.3-10 female
Mounting	Plane
Packing	1Pcs in box

[illegible]

Technical drawing showing the front and side views of a rectangular metal plate with dimensions and tolerances:

- Front View (Top):**
 - Overall width: $128 \pm 2 \text{ mm}$
 - Overall height: $58 \pm 2 \text{ mm}$
 - Distance from top edge to center of top hole: $13.5 \pm 2 \text{ mm}$
 - Distance from bottom edge to center of bottom hole: $13.5 \pm 2 \text{ mm}$
 - Distance between centers of top and bottom holes: $54 \pm 2 \text{ mm}$
 - Distance from left edge to center of left hole: $13.5 \pm 2 \text{ mm}$
 - Distance from right edge to center of right hole: $13.5 \pm 2 \text{ mm}$
 - Distance between centers of left and right holes: $114 \pm 2 \text{ mm}$
 - Radius of corner: $R2 - \phi 45 \pm 0.5 \text{ mm}$
 - Distance from top edge to center of top hole (right side): $30 \pm 2 \text{ mm}$
 - Distance from bottom edge to center of bottom hole (right side): $27 \pm 2 \text{ mm}$
 - Distance from top edge to center of top hole (right side): $13.5 \pm 2 \text{ mm}$
 - Distance from bottom edge to center of bottom hole (right side): $47 \pm 2 \text{ mm}$
- Side View (Bottom):**
 - Overall width: $30 \pm 2 \text{ mm}$
 - Overall height: $13.5 \pm 2 \text{ mm}$

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