

# Technical proposal for JX-DDC6-847M2350M-SF30 Dielectric Combiner

◆ High Performance

◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2021/12/30	Lee	Created	/

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## 1. Mechanical layout

Table 1 Mechanical specifications @ JX-DDC6-847M2350M-SF30

Dimension	LxWxH: 145mm x 40mm x 15mm
Connectors	SMA-Female

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Finish	Conductive oxidation of aluminum alloy
Notes	Material shall be RoHS 6/6

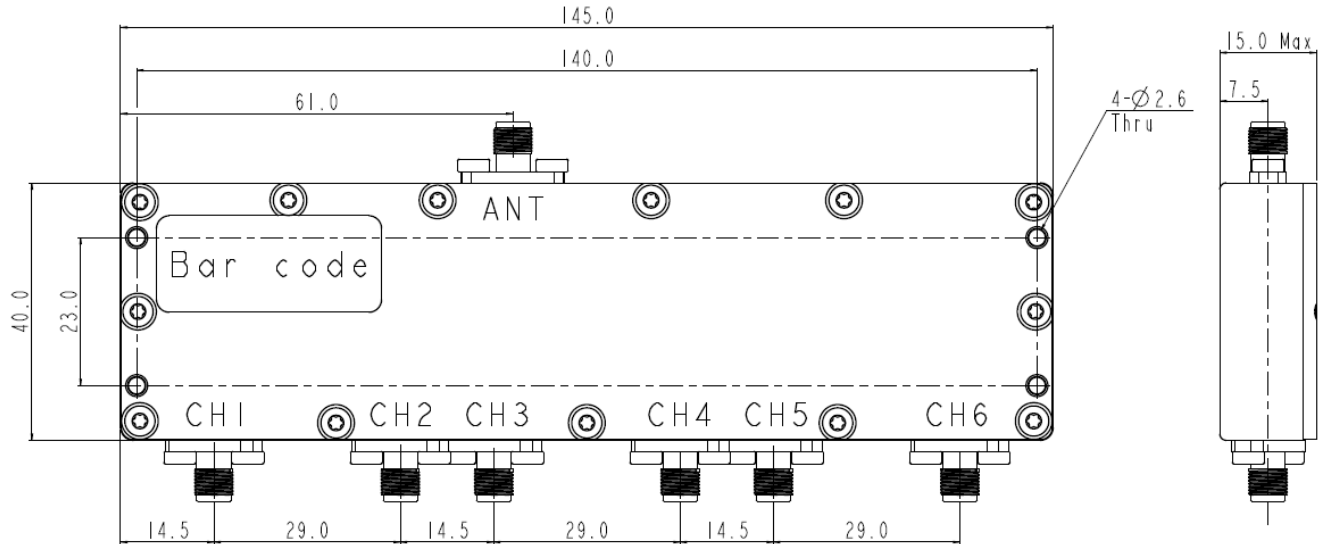


Figure 1 JX-DDC6-847M2350M-SF30 front panel layout

## 2. Electrical analysis

Table 2 Electrical specifications @ JX-DDC6-847M2350M-SF30

Item	Parameter	CH1	CH2	CH3	CH4	CH5	CH6
1	Center frequency	1950MHz	1747.5MHz	2350MHz	2535MHz	897.5MHz	847MHz
2	Bandwidth	$f_0 \pm 30\text{MHz}$	$f_0 \pm 37.5\text{MHz}$	$f_0 \pm 50\text{MHz}$	$f_0 \pm 35\text{MHz}$	$f_0 \pm 17.5\text{MHz}$	$f_0 \pm 15\text{MHz}$
3	VSWR	$\leq 1.5:1$	$\leq 1.5:1$	$\leq 1.5:1$	$\leq 1.5:1$	$\leq 1.5:1$	$\leq 1.5:1$
4	Insertion loss	$\leq 3.5\text{dB}$	$\leq 3.5\text{dB}$	$\leq 2.5\text{dB}$	$\leq 2.5\text{dB}$	$\leq 3.5\text{dB}$	$\leq 4.0\text{dB}$
5	Ripple in BW	$\leq 2.5\text{dB}$	$\leq 2.5\text{dB}$	$\leq 2.0\text{dB}$	$\leq 2.0\text{dB}$	$\leq 2.5\text{dB}$	$\leq 2.5\text{dB}$
6	Rejection	$\geq 30\text{dB} @ 211$ 0-2170MHz	$\geq 30\text{dB} @ 180$ 5-1880MHz	$\geq 30\text{dB} @ 2450-$ 2500MHz&211 0-2170MHz	$\geq 30\text{dB} @ 262$ 0-2690MHz	$\geq 25\text{dB} @ 92$ 5-960MHz	$\geq 25\text{dB} @ 79$ 1-821MHz
7	Input power	2.0W					
8	Impedance	50 $\Omega$					
9	Operating temperature range	-40 to +85°C					

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