

Technical Proposal for JX-DC-340M2700M-18Nx Directional Coupler

- ◆ Low PIM
- ◆ High Performance
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/25	Lee	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications

Dimension	L x W x H: 177mm x 47mm x 23mm(± 0.2 mm)
Port connectors	N-Female
Finish	Black
Ingress Protection	IP65
Notes	Material shall be RoHS 6/6

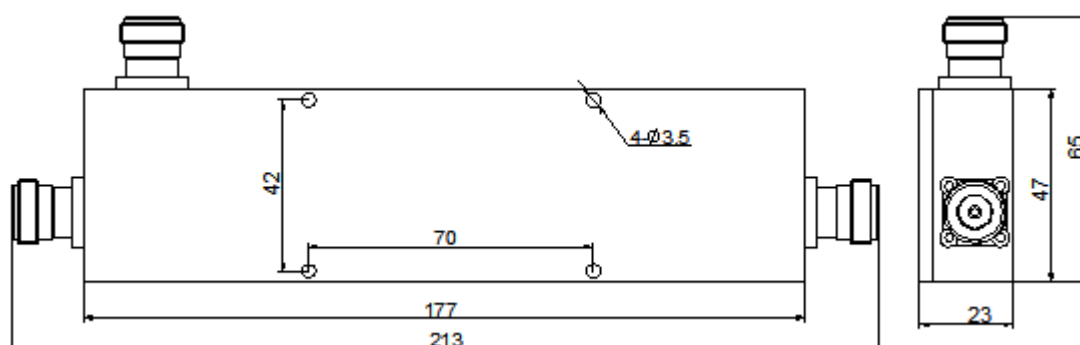


Figure 1 JX-DC-340M2700M-18Nx front panel layout

2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Specification						
1	Frequency range	340-2700MHz						
2	Model number	JX-DC-34 0M2700M -18N6	JX-DC-34 0M2700M -18N8	JX-DC-34 0M2700M -18N10	JX-DC-34 0M2700M -18N15	JX-DC-34 0M2700M -18N20	JX-DC-34 0M2700M -18N30	
3	Coupling(dB)	380-2700	6 \pm 1.0	8 \pm 1.0	10 \pm 1.2	15 \pm 1.2	20 \pm 1.2	30 \pm 1.5
		340-380	6 \pm 1.5	8 \pm 1.5	10 \pm 1.7	15 \pm 1.7	20 \pm 1.8	30 \pm 1.8
4	Insertion loss(dB)	1.8	1.2	1.1	0.5	0.4	0.3	
5	VSWR	≤ 1.25						≤ 1.25
6	Directivity	≥ 20 dB						≥ 18 dB
7	Power	300W						
8	Impedance	50 Ω						
9	PIM3	-155dBc@2*43dBm (test on 900MHz&1800MHz)						
10	Temperature range	-35 $^{\circ}$ C to +85 $^{\circ}$ C						

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