



MI-707nn

Diplexer 2300-2690/3400-3800 MHz



MASS™

Microdata Advanced Site Solutions

With our expertise in site system design we are able to provide a solution for any site sharing or upgrade scenario.

Our focus area is RF-filter based solutions including combiners, multi band TMAs, di-, tri- and quadruplexers.

Our product portfolio supports all frequencies for mobile communication bands ranging from 450 MHz to 6 GHz.

Site and network sharing makes it cost efficient to reach sparsely populated areas where new subscribers can contribute to revenue.

MASS™

Advantage

Increases coverage
more traffic & higher ARPU

Increases capacity
more traffic & higher ARPU

Reduces the cost
of network expansion

Minimizes
site acquisition issues

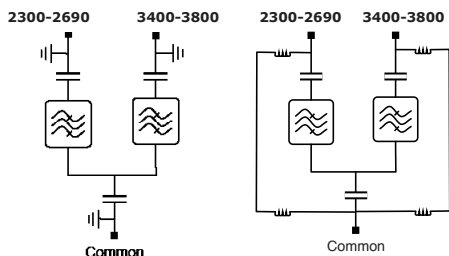
Specifications

Low Band		
Frequency Band	2300 - 2690 MHz	
Insertion Loss	< 0.15 dB typ, < 0.20 dB max	
Return Loss	> 18 dB min	
Continuous Average Power	100 W	
Isolation High Band	> 50 dB min	
Intermodulation, 2x43 dBm TX Carrier	min 160 dBc (-117 dBm)	
High Band		
Frequency Band	3400 - 3800 MHz	
Insertion Loss	< 0,15 dB typ, < 0.20 dB max	
Return Loss	> 18 dB min	
Continuous Average Power	100 W	
Isolation Low Band	> 50 dB min	
Intermodulation, 2x43 dBm TX Carrier	min 160 dBc (-117 dBm)	
Environmental		
Operating Temperature Range	-40 to +65°C -40 to +149°F	
Operation	ETS 300 019-1-4 Class 4.1E	
Storage	ETS 300 019-1-1 Class 1.2	
Ingress Protection	IP67	
MTBF	> 1,000,000 h	
Electrical		
Lightning Protection	5 kA 8/20 µs	
Mechanical		
Dimensions (WxHxD) excl connectors	4:2 172x97x37 mm 8.3x4.2x1.6 in	8:4 172x97x68 mm 3.74 x6.77x2.68 in
Volume	0.6 l	1.15 l
Weight (including brackets)	1.3 kg 2.87 lb	2.5 kg 5.51 lb
Connectors	4.3-10 Female	
Mounting	Hose clamps or wall mount, Supporter Pole Diameter: 40-140mm	
Color	NCS 1502-R	
Bracket	Included	
*typical		

Selection Guide

		Connector 4.3-10 (F)
Mount	4:2	MI-70731
	8:4	MI-70741

Block Diagram



DC/AISG

	2300-2690	3400-3800
MI-707n1	Block	Block
MI-707n2	Pass	Pass

Mechanical Drawing

