

# IMF8-C-2STP

8 pack IMF Pass C-Band A1-A3, Reject 3820-3980MHz in phase 1, switchable, 4.3-10 connectors

## Electrical

### PHASE-1

Passband frequency range, MHz ..... 3700 – 3760  
 Insertion Loss, dB ..... 0.6 max, 0.5 typ.  
 Insertion Loss average for 3740-3760 MHz, dB ..... 0.55 max.  
 Group Delay, ns ..... 30 max  
 Return loss, dB ..... 18 min, 20 typ.  
 Stopband frequency range, MHz ..... 3820 – 3980  
 Rejection in 3820–3980 MHz, dB ..... 60 min, 63 typ.  
 IMD (two +43 dBm carriers) ..... -145 dBc max  
 Input power rating per port – RMS ..... 50 W Max\*  
 Total average input power (8 x50W) ..... 400 W Max\*  
 Input power rating per port– PEP ..... 500 W Max

### PHASE-2

Passband frequency range, MHz ..... 3700 – 3980  
 Insertion Loss, dB ..... 0.2 typ., 0.35 max  
 Insertion Loss average for every 20 MHz, dB ..... 0.3 max  
 Group Delay, ns ..... 5 max  
 Return loss, dB ..... 18 min, 20 typ.  
 IMD (two +43 dBm carriers) ..... -145 dBc max  
 Input power rating per port – RMS ..... 50 W Max\*  
 Total average input power (8 x50W) ..... 400 W Max\*  
 Input power rating per port– PEP ..... 500 W Max

\*Power rating is limited by AISG component operating temperature

## DC/AISG

AISG Frequency ..... 2.176 MHz  
 AISG control port ..... Via BTS1  
 Voltage ..... 10-30 V  
 Power Consumption (AISG mode/switching) ..... 3W Typ, 3.5W max  
 Power Consumption (Idle mode) ..... 0.5W max\*\*  
 AISG version ..... 2.0, 3.0 optional  
 Phase switching time ..... 200 sec  
 AISG commands supported ..... TMASetMode, TMAGetMode

\*\*No need for DC/AISG supply in RF passive operation mode

AISG command	Value	Description
TMASetMode	NormalMode	Switch from any status to Phase-1
	BypassMode	Switch from any status to Phase-2
TMAGetMode	NormalMode	Filter is in Phase-1 mode
	BypassMode	Filter is in Phase-2 mode

Table: AISG command description

## Mechanical

Dimensions, mm ..... 428 x 144 x 75  
 Dimensions, in ..... 16.9 x 5.7 x 3  
 Weight (without mounting brackets) ..... 7.7 kg (17 lbs)  
 Weight (with mounting brackets) ..... 8.1 kg (17.9 lbs)  
 Finish ..... Gray paint  
 Connectors, RF ..... 4.3-10 female  
 Ground terminal diameter, mm (in) ..... 5 (0.20)

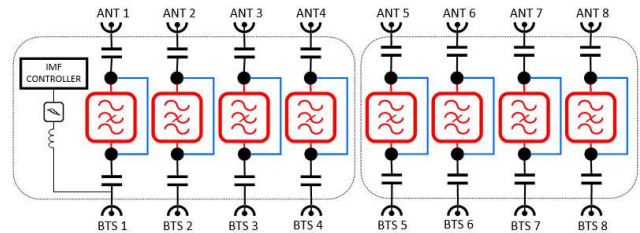
## Ordering Information: SPECIFY FILTER MODEL NUMBER AS SHOWN

	Model Number	Part Number	Description
Included	IMF8-C-2STP	E14V00P45	8 pack, 2 step IMF Pass C-Band A1-A3, switchable, 4.3-10 connectors
Optional	IMF-MNT	7850645-01	Low PIM pole mounting bracket kit (Purchased separately)

## Environmental

Operating temperature range, °C ..... -40 to +65  
 Ingress protection ..... IP67  
 Lightning protection ..... 5 kA, 8/20 µs

## Block Diagram



## Outline Drawing

