



TURNING TECHNOLOGY INTO SOLUTIONS

# High Selectivity - High Power AWS 1700/2100MHz Extended Blocks A-I Band Pass Filter Model Number: BPF-AWS1700AI-70H

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## Features & Benefits

- **Advanced Cavity Design**
- **Full band, receive only or block selective types**
- **High Isolation**
- **Very good VSWR performance**
- **Excellent PIM performance**
- **Compact design with Extremely low insertion loss**
- **Easy installation supporting both LTE & WCDMA technologies**
- **Exceptional reliability and environmental protection**

## Introduction

The EMTS Telecom Services Ltd. band pass filter model BPF-AWS1700AF-70H is a high performance high power filter that allows the use of the BTS in dense RF area where RF interference is very common. The use of high selectivity filters also guarantees high isolation level between the operators band at the 1700/2100MHz band ensuring an interference-free environment for any technology deployed. The EMTS cavity filter design provides a very low insertion loss while keeping the product extremely compact and lightweight. Return Loss of min 20dB makes the introduction of the device transparent to the BTS. Filters and Diplexers are unquestionably EMTS score product line with success of designed features as high selectivity, high channel to channel isolation and extremely low insertion loss.



**EMTS Telecom Services** offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks. Based on advanced technologies, EMTS proven indoor and outdoor solutions solve a wide range of network challenges including interference and oscillation problems, challenging coverage holes, rapid response deployment and inadequate in-building coverage. Regardless of the technology or frequency, EMTS can provide customized coverage solutions that address any combination of unique and complex network needs for the Wireless Networks.

## Technical Specifications

### Electrical Specifications

| Item                     | Specification   |
|--------------------------|---|
| Pass Band                | 1710-2170MHz<br>Type A: 1710-2170 MHz<br>Type B: 1710-1770 MHz<br>Full band, Receive only or band selective types<br>Or any partial bandwidth |
| Insertion Loss           | 0.3dB Max.  |
| Stop Band Attenuation    | 50dB Min.   |
| VSWR                     | 1.3:1dB Max.  |
| Impedance                | 50Ω   |
| Input Power              | 400W Max.   |
| Intermodulation Products | -160 dBc Min. (3 <sup>rd</sup> order, with 2x20w)<br>Typical -165 dBc   |
| Connector                | Port1: 7-16(Female) / Port2: 7-16(Male)   |
| Special Features         | Built-in DC stop  |

### Mechanical Specifications

|                        |                                   |
|------------------------|-----------------------------------|
| Mounting               | With 4 screws (Max. 4mm diameter) |
| Dimensions (w x d x h) | 255.0 x 108.0 x 56.0. (mm)        |
| Finish                 | Ivory                             |
| Weight                 | 3Kg Max.                          |
| ROHS                   | Fully compliant                   |

### Environmental Specifications

|                   |                |
|-------------------|----------------|
| Temperature Range | -35°C to +65°C |
| Application       | Outdoor IP66   |
| Humidity          | 0 to 95 %      |

**\*Full spec will be submitted after getting the final requirements from the customer**

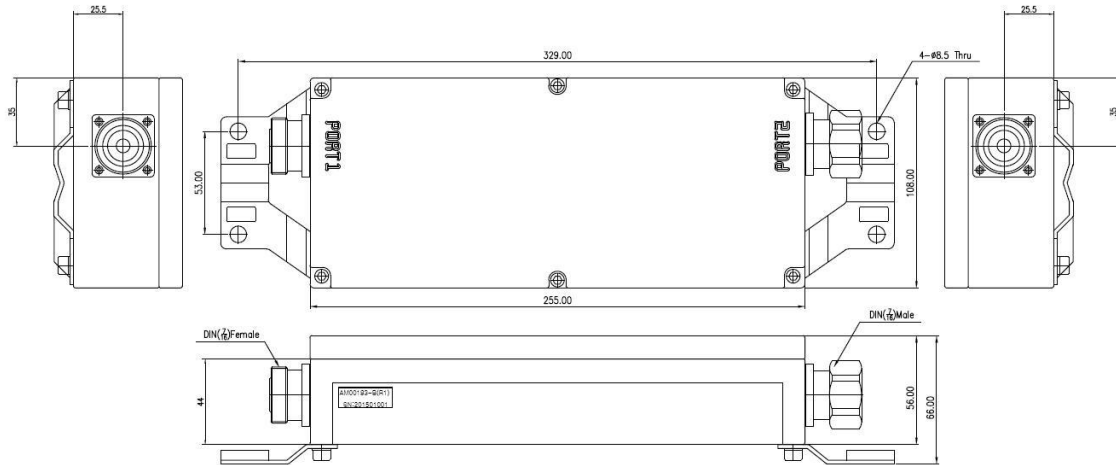
#### About EMTS Telecom Services Ltd.:

EMTS is a leading supplier of high-quality RF coverage solutions designed to maximize wireless network coverage in difficult RF environments and complex settings. The company specializes in extending RF radio coverage to rural areas, office buildings, subways, tunnels and shadowed areas. The EMTS coverage solution supports all major mobile technologies and standards of wireless Networks.

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## Mechanical Outline



**Note: All specifications subject to change without notice.**



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