



TURNING TECHNOLOGY INTO SOLUTIONS

# High Selectivity - High Power WCDMA / GSM 900MHz Band Pass Filter Model Number: BPF-925-70H

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## Features & Benefits

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

## Introduction

The EMTS Telecom Services Ltd. band pass filter model BPF-925-70H 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 900MHz 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 Type A

Frequency Range	890-960 MHz
Bandwidth	70MHz
Insertion Loss	$\leq 1.2\text{dB}$ @890-909MHz, $\leq 0.3\text{dB}$ @909-960MHz,
Rejection	$\geq 60\text{dB}$ @DC-885MHz, $\geq 80\text{dB}$ @1710-2200MHz
Return Loss	$\geq 20\text{dB}$
Power Handling	400W Max.
PIM (IM3)	$\leq -160$ @+43dBm $\times 2$ , typical $< -150$
Impedance	50 $\Omega$
Temperature Range	-25 to 55°C
Environment Humidity	5% to 97%
Installation Environment	Outdoor, IP65
Connectors	DIN-Female
Material	Cavity: Aluminum silver-plated; Connector: Copper
Special Features	Built-in DC Stop
Mounting	With 4 screws
Size	304.1x96x62 mm
Weight	2.01Kg

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#### 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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### Electrical Specifications Type B,C,D

Item	Specification
Pass Band	Type B : 880-960 MHz Type C : 880-915 MHz Type D : 890-915 MHz Full band, Receive only or band selective types Or any partialbandwidth
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) 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

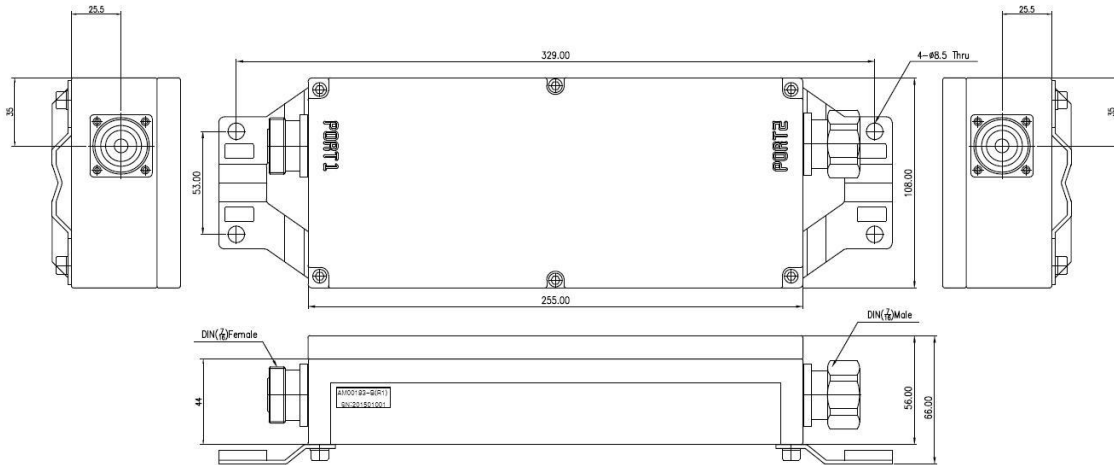
Temperature Range	-35°C to +65°C
Application	Outdoor IP66
Humidity	0 to 95 %

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



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## Mechanical Outline



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

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