

# PDI's CUSTOM FILTERS



**FASTEST DELIVERY**



**BROADCAST QUALITY**



**WE CAN BUILD ANY FILTER  
TO MEET YOUR NEEDS!**

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# CHANNEL ELIMINATION & SPECIALTY FILTERS

## Why Buy PDI Filters?

### **PDI Custom Builds To Meet Your Requirements**

PDI can build almost any filter for any application at a cost far less than what you would expect.

### **We Will Provide An Evaluation Unit In A Few Days**

PDI engineers will work with you until you get exactly what you want.

### **Orders Are Filled In Weeks Not Months**

PDI can fill large orders in just a matter of weeks. In many cases we can get you your units in a week or less.

### **You Can Expect Superior Performance**

PDI engineers custom build your filters, individually testing each unit to comfortably meet all specifications.

### **Used By MSO's Worldwide**

Over the past six years PDI has built custom filters and tier traps for the majority of top MSO's.



## **Filters For Any Application:**

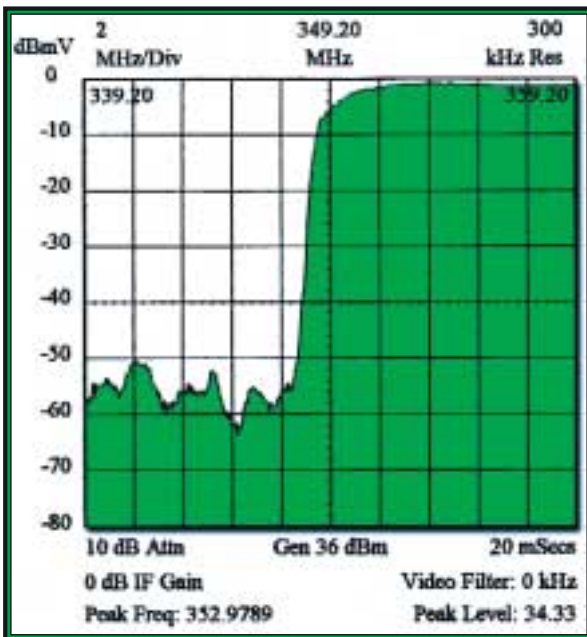
- PCS Interference Filters
- High/Low Pass Filters
- Tier & Custom Tier Filters
  - Brick Wall Filters
  - Wide Bandpass Filters
  - Band Rejection Filters
  - General Bandpass Filters
  - Highly Selective Bandpass Filters
- Noise Filters For Fiber Optic Systems
  - Pilot Carrier Traps
- Split Band Filters For Fiber Optic Networks
- Channel Deletion Filters

# Brick Wall Filters • High Pass/Low Pass Models PDI-1626HP & PDI-1626LP



Model PDI-1626 HP/LP  
Dimensions: 19"W x 3 1/2"H x 2 3/4"D

The PDI-1626HP and PDI-1626LP are sharp cutoff high and low pass filters used primarily for reinserting blocks of new programming in various portions of the CATV spectrum. They can also be used to split a CATV cable feed to interface with a fiber optics system. Cut off frequencies are customer specified. These filters are temperature and low frequency vibration stable. The units use "F" type connectors and are rack mounted utilizing 3-1/2" front panels.

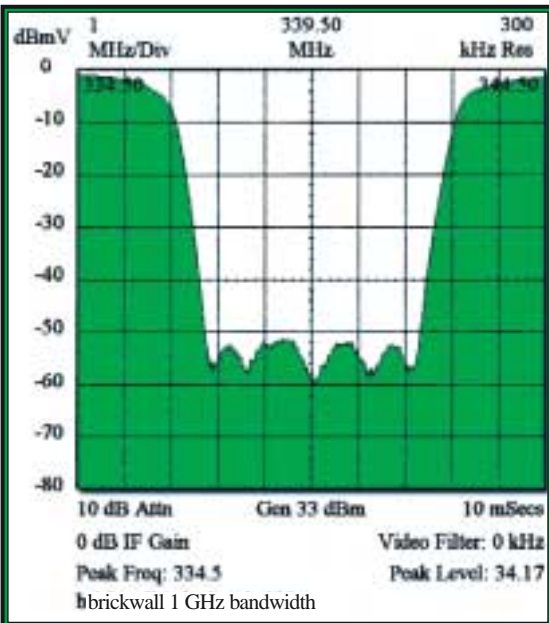


# Channel Deletion Filters Model PDI-1626



**Model PDI-1626**  
**Dimensions: 19"W x 3 1/2"H x 2 3/4"D**

The PDI-1626 is a highly stable filter that will remove all signal information in any 6 MHz passband from 54 to 860 MHz with minimal effect on the adjacent channels. These filters are an 8 cavity design and are used primarily to delete an unwanted television channel on a cable system at a multiple dwelling unit or a node so a substitute channel or data may be inserted. The filters will pass 60/90 VAC at 14 amps as an extra cost option and are available in a 19" rack, wall mount, outdoor pedestal or strand mount housing with an optional built-in reinsertion point. Other customized versions are available on special order.



## SPECIFICATIONS:

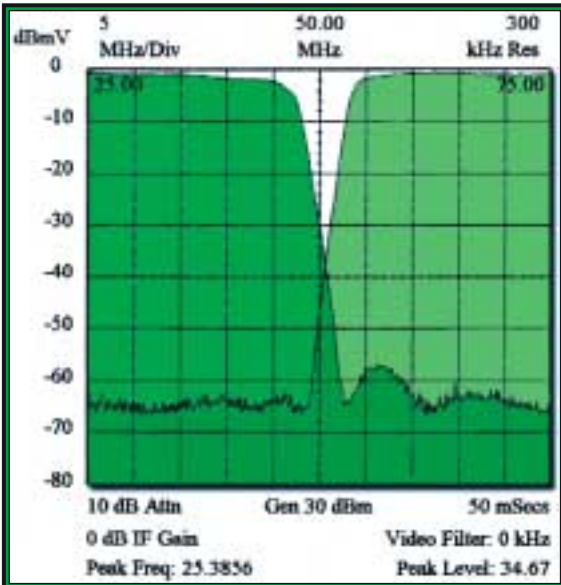
Bandwidth:	5-860 MHz
Channels:	2 to 135 and sub-channels
Response:	<1 dB
Insertion loss desired bands:	1 dB
Insertion loss lower adjacent:	3 dB
Insertion loss upper adjacent:	3 dB
Rejection:	>50 dB
Return loss:	>16 dB
Impedance:	75 ohms
Feed-thru power:	60/90 VAC/4 amps 14 amps, special order
Temperature:	-40° to 140° F

# High Efficiency Diplex Filter Model PDI-DFN619



Model PDI-DFN619  
Dimensions: 19" W x 2 1/4"H x 5"D

The PDI-DFN619 is a high efficiency band-splitter that separates a desired spectrum into a low band and high band. It is also used to combine these bands into a common output. These filters have extremely low insertion loss for the desired frequencies and are used primarily in headends to control the flow, level and direction of television signals and data. The filters are designed for 19" rack mounting and are available with customized cross-over frequencies on special order.



## SPECIFICATIONS:

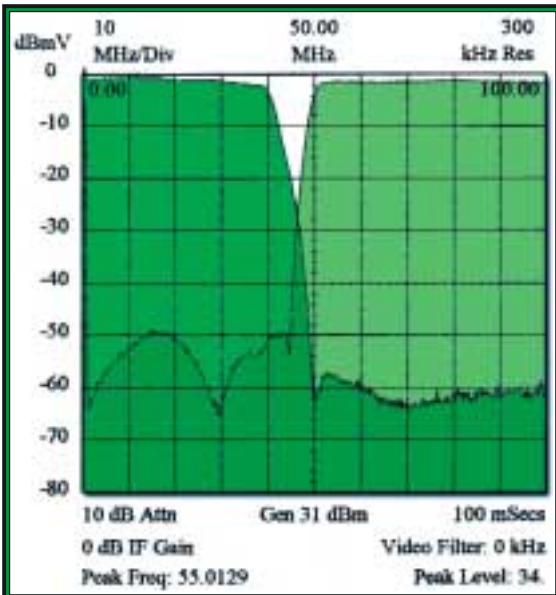
Bandwidth low side:	0-42 MHz
Bandwidth high side:	54-1000 MHz
Response:	±0.25 dB
Insertion loss desired bands:	<1 dB
Rejection undesired bands:	>-55 dB
Group delay sub band channel:	<25 ns
Group delay high band channel:	<25 ns
Impedance:	75 ohms
Temperature:	-40° to 140° F

# Outdoor Diplex Filter Network Model PDI-DPFO



Model PDI-DPFO  
Dimensions: 3 3/4"W x 2 3/4"H x 7/8"D

The PDI-DPFO is a band-splitter in an outdoor housing. It separates a desired spectrum into a low band and high band or conversely combines these bands into a common output. These filters are used to insert or remove sub-band signals from distribution systems. They help to control the flow, level and direction of television and data in the distribution system. The filters are contained in a sealed housing, heavily tin plated to prevent rust with a grounding boss for safety.



## SPECIFICATIONS:

Bandwidth low side:	0-42 MHz
Bandwidth high side:	54-1000 MHz
Response:	±0.50 dB
Insertion loss desired bands:	<1.5 dB
Rejection undesired bands:	>50 dB
Group delay sub band channel:	<25 ns
Group delay high band channel:	<25 ns
Return loss:	>15 dB
Impedance:	75 ohms
Temperature:	-40° to 140° F

# Lowpass Filters

## Models PDI-EV619LP & PDI-EVR619LP

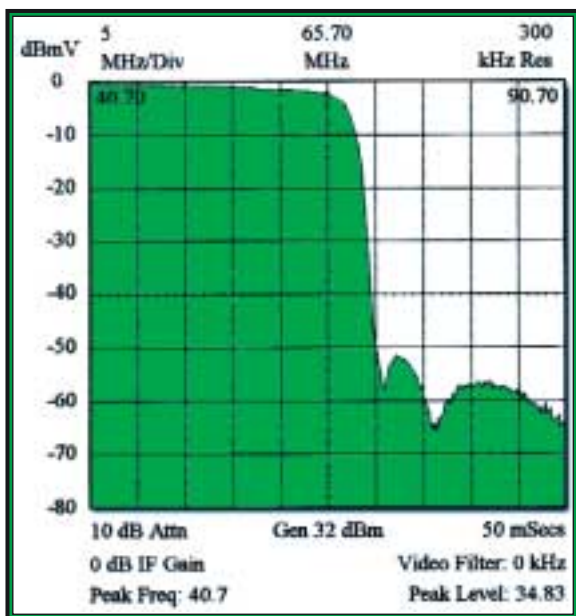


**Model PDI-EVR619LP**  
**Dimensions: 19"W x 2 1/4"H x 5"D**



**Model PDI-EV619LP**  
**Dimensions: 4 1/4"W x 1 7/8"H x 5"D**

The PDI-EV619LP & EVR619LP are lowpass filters that will pass all frequencies from DC to a prescribed frequency. They exhibit approximately 1dB of insertion loss for the desired frequencies with the exception of 3dB at the upper passband edge. They can be custom built to pass frequencies to 860MHz. The filters come with "F" fittings and are available for 19" rack or wall mounting.



### SPECIFICATIONS:

Spectrum available:	0-860 MHz
Passband response:	±0.5 dB
Passband knee:	3 dB
Undesired band rejection:	>-55dB @ 10 MHz from knee >-60dB @ 20 MHz from knee
Return loss:	>16 dB across the desired band
Impedance:	75 ohms

# General Bandpass Filters

## Models PDI-EV623 & PDI-EVR623

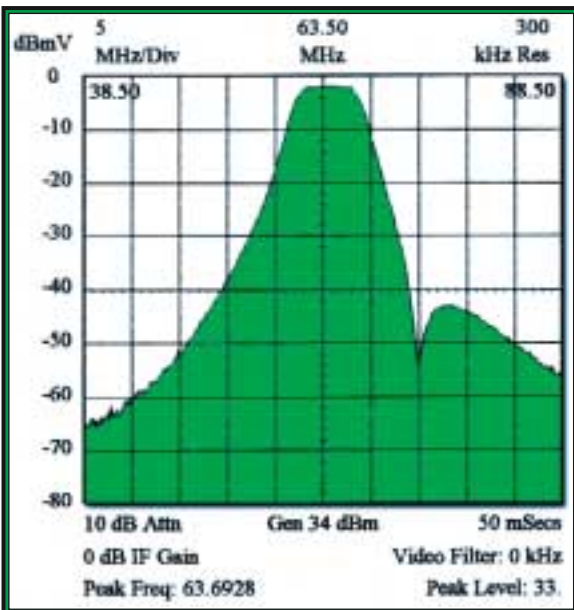


**Model PDI-EVR623**  
**Dimensions: 19"W x 2 1/4"H x 5"D**



**Model PDI-EV623**  
**Dimensions: 4 1/4"W x 1 7/8"H x 5"D**

The PDI-EV623 & PDI-EVR623 are very stable bandpass filters with good selectivity used to eliminate adjacent channel or off air interference in CATV or similar headends. They cover the frequency spectrum from 5 to 860 MHz. They offer excellent operating characteristics such as high return loss, low insertion loss and high undesirable signal rejection. They are available for either wall or rack mounting.



### **SPECIFICATIONS:**

Spectrum available:	Any channel between 5-860 MHz
Insertion loss:	<3 dB
Passband response:	±1 dB
Return loss:	>16 dB
Undesired band rejection:	-50 dB @ 20 MHz from center frequency >-60 dB @ 40 MHz from center frequency
Impedance:	75 ohms
Operating temperature:	-40° F to +140° F

# Pilot Carrier Trap

## Models PDI-EV643 & PDI-EVR643

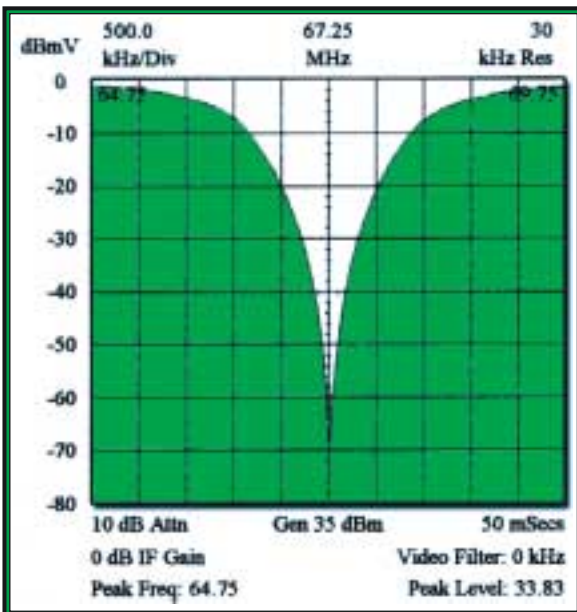


Model PDI-EVR643  
Dimensions: 19"W x 2 1/4"H x 5"D



Model PDI-EV643  
Dimensions: 4 1/4"W x 1 7/8"H x 5"D

The PDI-EV643 & EVR643 are ultra stable traps with superior performance characteristics used to suppress pilot carriers used in AML or CATV applications. They can be special ordered to trap dual pilot carriers and are available in either wall or rack mount configurations.



### SPECIFICATIONS:

Spectrum available:	AML, CATV or special pilot frequencies
Operational passband:	5-860 MHz
Pilot carrier rejection:	>-60 dB
Insertion loss:	1 dB
Return loss:	>18 dB
Impedance:	75 ohms
Operating temperature:	-20° F to +105° F

# Fiber Optic Systems Noise Filter Models PDI-FV623 & PDI-FVR623

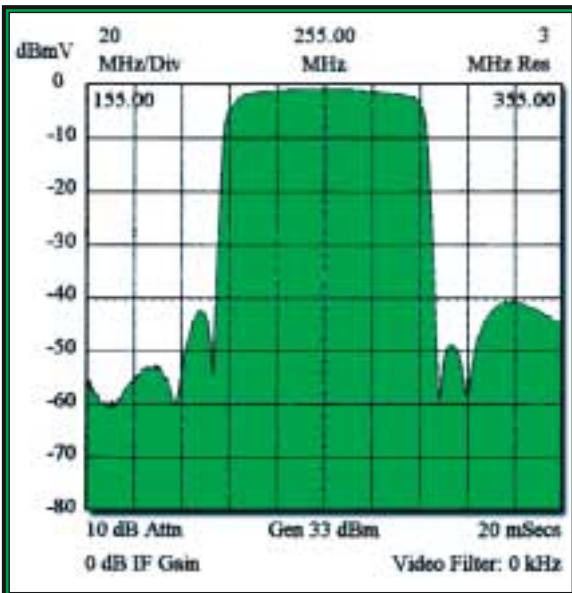


Model PDI-FVR623  
Dimensions: 19"W x 2 1/4"H x 5"D



Model PDI-FV623  
Dimensions: 4 1/4"W x 1 7/8"H x 5"D

The PDI-FV623 & FVR623 are highly stable, very flat, low insertion loss filters with a wide passband. They are used to allow specially selected groups of channels to pass while efficiently rejecting the rest of the spectrum. Custom design allows the customer to choose a passband between any two frequencies. The filters are available for 19" rack or wall mounting.



## SPECIFICATIONS:

Spectrum available:	0-860 MHz
Passband response:	±0.5 dB
Passband knee:	<3 dB
Undesired band rejection:	-40 dB @ 10 MHz from knees -50 dB @ 20 MHz from knees
Return loss:	>15 dB across the desired band
Impedance:	75 ohms

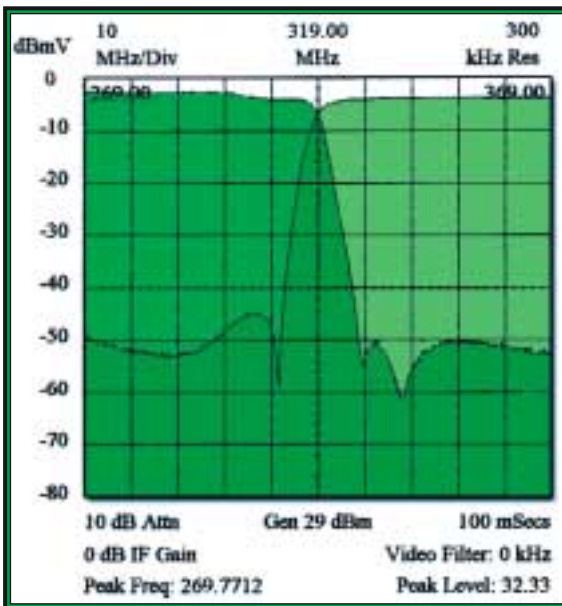
# Split Band Filters For Fiber Optic Systems

## Model PDI-FVX619



**Model PDI-FVX619**  
**Dimensions: 19"W x 2 1/4"H x 5"D**

The PDI-FVX619 is a specialized diplex filter for fiber optic networks designed to minimize noise and offer economies in the use of transmitters. By splitting the passband in a unique manner, group delay inherent in such filters is kept exceptionally low and the response is very flat. This filter enables the use of less expensive laser transmitters to load a 54MHz to 1GHz passband by custom choice of various low and high crossover points. The unit is rack mounted with each 1.75" panel able to hold 3 filters.



### SPECIFICATIONS:

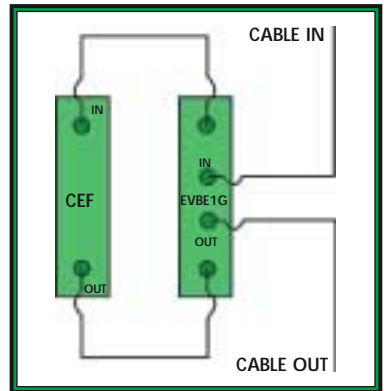
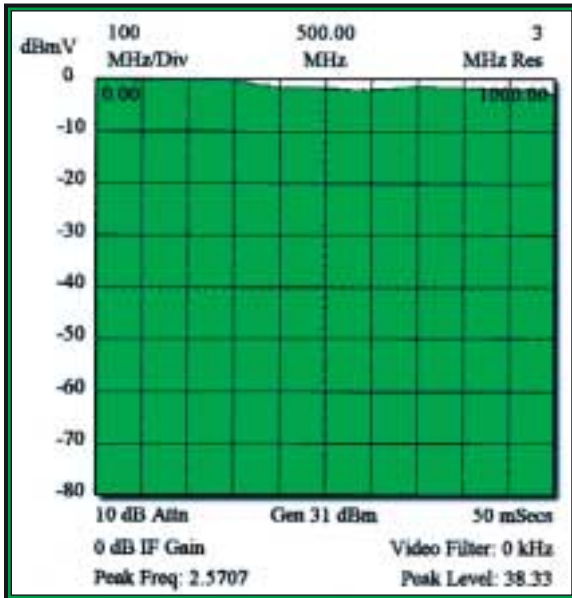
Spectrum available:	5-1000 MHz
Passband response:	±0.5 dB
Insertion loss:	5 dB (filter and internal splitter)
Group delay:	<20ns/channel
Undesired band rejection:	>-50 dB @ 10 MHz from knees
Return loss:	>15 dB
Impedance:	75 ohms

# Bandwidth Expander Model PDI-EVBE1G



**Model PDI-EVBE1G**  
Dimensions: 4 1/4"W x 1 7/8"H x 5"D

The PDI-EVBE1G is deployed in situations when a channel elimination filter network or any filter network needs to extend its bandwidth to 1 GHz. This is necessary because many channel elimination filters in use have limited bandwidths of 400, 450, or 550 MHz. Typical operation of the device allows for total compatibility of the EVBE1G unit with all brands of channel elimination filters. In certain situations there could exist custom tuning requirements.



## SPECIFICATIONS:

Pass band:	5 - 1 GHz
Insertion loss:	1 dB Typical 3 dB Maximum
Impedance:	75 ohms
Connections:	F/F

# Tier Filters Model PDI-619-TF

PDI's model 619 multi channel filters are designed with unique hybrid circuitry developed to achieve the tightest adherence to specifications in the industry. Filters are available in any configuration required.

Model PDI-619-TF  
Approx. 3.6" long  
Approx. 0.8" diameter.



## Typical High Pass/Low Pass Tier Filters Performance Specifications

Model	Pass Band (MHz)	Pass Band Loss (dB)	Stop Band (MHz)	Stop Band (MHz)
<b>Low Pass</b>				
PDI-619-LP-2	0-60	-5	66-860	-50
PDI-619-LP-13	0-216	-5	223-860	-50
PDI-619-LP-25	0-234	-5	241-860	-50
PDI-619-LP-36	0-300	-6	307-860	-50
PDI-619-LP-50	0-384	-6	394-860	-50
<b>High Pass</b>				
PDI-619-HP-2	55-860	-2	0-50	-50
PDI-619-HP-7	175-860	-5	0-165	-50
PDI-619-HP-13	211-860	-5	0-201	-50
PDI-619-HP-36	295-860	-6	0-285	-50
PDI-619-HP-50	379-860	-6	0-369	-50

## Typical Wideband Multi Channel Tier Filter Performance Specifications

Model	Stop Band (MHz)	Stop Band (dB)	Lower Pass (MHz)	Lower Pass (dB)	Higher Pass (MHz)	Higher Pass (dB)	Lower Pass (MHz)	Lower Pass (dB)
<b>Wideband</b>								
PDI-619-A-C	121-133	-50	114	-5	139	-5	860	-2
PDI-619-A-H	121-163	-50	114	-5	169	-5	860	-2
PDI-619-A-I	121-169	-50	114	-5	175	-5	860	-2
PDI-619-D-H	139-163	-50	132	-5	169	-5	860	-2
PDI-619-F-I	151-169	-50	144	-5	175	-5	860	-2
PDI-619-7-13	175-211	-50	168	-5	217	-5	860	-2
PDI-619-L-N	229-241	-50	222	-7	247	7	860	-2
PDI-619-S-W	271-295	-50	264	7.5	301	7.5	860	-2
PDI-619-FF-OO	331-385	-50	324	8.5	391	8.5	860	-2

# Bandpass Filters

## Model PDI-623

### Description:

These single channel and multi channel bandpass filters are enclosed in our standard, rugged, weatherproof case for use at the tap in single channel applications. The model PDI-623 may also be utilized to improve overall system performance when interconnected with your headend processing equipment.

### Specifications:

Return Loss: 16 dB minimum  
 Bandwidth: 10 to 750 MHz  
 Temp. Drift: 40 deg. F to 140 deg F compensated for maximum stability

Model Frequency	Insertion Bandpass	Rejection -6 MHz Video Carrier	Rejection +6 MHz Audio Carrier
PDI-623-2	-4 dB Max.	-25 dB Min.	-25 dB Min.
PDI-623-3	-4 dB Max.	-25 dB Min.	-25 dB Min.
PDI-623-4	-4 dB Max.	-25 dB Min.	-25 dB Min.
PDI-623-5	-4 dB Max.	-20 dB Min.	-25 dB Min.
PDI-623-6	-4 dB Max.	-20 dB Min.	-25 dB Min.
PDI-623-A-2	-4 dB Max.	-20 dB Min.	-25 dB Min.
PDI-623-A-1	-4 dB Max.	-20 dB Min.	-25 dB Min.
PDI-623-A	-4 dB Max.	-15 dB Min.	-25 dB Min.
PDI-623-B	-4 dB Max.	-15 dB Min.	-25 dB Min.
PDI-623-C	-4 dB Max.	-12 dB Min.	-25 dB Min.
PDI-623-D	-4 dB Max.	-12 dB Min.	-25 dB Min.
PDI-623-E	-4 dB Max.	-12 dB Min.	-22 dB Min.
PDI-623-F	-4 dB Max.	-12 dB Min.	-22 dB Min.
PDI-623-G	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-H	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-I	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-7	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-8	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-9	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-10	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-11	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-12	-4 dB Max.	-12 dB Min.	-20 dB Min.
PDI-623-13	-4 dB Max.	-10 dB Min.	-20 dB Min.
PDI-623-J	-4 dB Max.	-10 dB Min.	-20 dB Min.
PDI-623-K	-4 dB Max.	-10 dB Min.	-20 dB Min.
PDI-623-L	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-M	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-N	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-O	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-P	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-Q	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-R	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-S	-4 dB Max.	-8 dB Min.	-20 dB Min.
PDI-623-T	-4 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-U	-4 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-V	-4 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-W	-4 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-AA	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-BB	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-CC	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-DD	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-EE	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-FF	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-GG	-5 dB Max.	-8 dB Min.	-18 dB Min.
PDI-623-HH	-5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-II	-5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-JJ	-5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-KK	-5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-LL	-5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-MM	-5.5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-NN	-5.5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-OO	-5.5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-PP	-5.5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-QQ	-5.5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-RR	-5.5 dB Max.	-6 dB Min.	-18 dB Min.
PDI-623-SS	-6 dB Max.	-3 dB Min.	-6 dB Min.
PDI-623-TT	-6 dB Max.	-3 dB Min.	-6 dB Min.
PDI-623-UU	-6 dB Max.	-3 dB Min.	-6 dB Min.
PDI-623-VV	-6 dB Max.	-3 dB Min.	-6 dB Min.
PDI-623-WW	-6 dB Max.	-3 dB Min.	-6 dB Min.
PDI-623-XX	-6 dB Max.	-3 dB Min.	-6 dB Min.
PDI-623-TT	-2.5 dB Max.	-50 dB Min.	-35 dB Min.
PDI-623-TT	-2.5 dB Max.	-50 dB Min.	-35 dB Min.
PDI-623-TT	-2.5 dB Max.	-50 dB Min.	-35 dB Min.
PDI-623-T10	-3.0 dB Max.	-45 dB Min.	-35 dB Min.
PDI-623-T11	-3.5 dB Max.	-45 dB Min.	-40 dB Min.
PDI-623-T12	-3.5 dB Max.	-45 dB Min.	-40 dB Min.
PDI-623-T13	-3.5 dB Max.	-30 dB Min.	-30 dB Min.
PDI-623-T14	-3.5 dB Max.	-30 dB Min.	-30 dB Min.

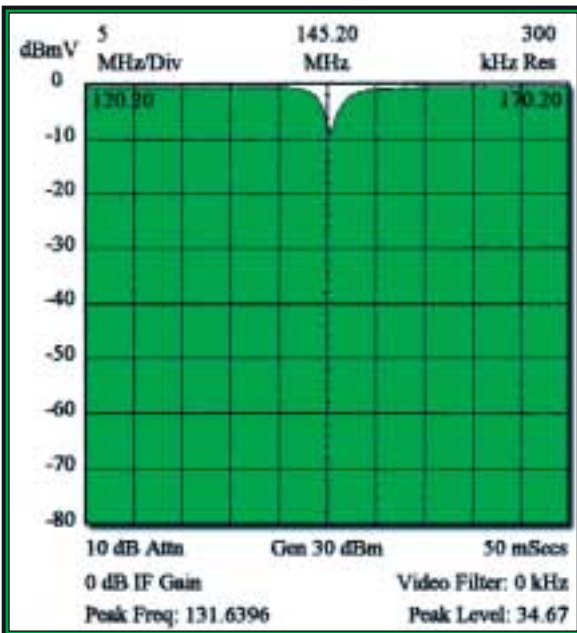
For channels not listed or multi channel application, call for specifications  
**All VHF channels available on request**

# Single Channel Level Adjuster Model PDI-604



Model PDI-604  
Approx. 3.6" long  
Approx. 0.8" diameter.

The PDI-604 is a filter designed to allow adjusting the level of single channel without effecting the adjacent channels. This device is a very cost effective and simple method adjusting levels that cause interference or overloads. It is ideal for antenna interference, private cable, and residential use.



## SPECIFICATIONS:

Spectrum available:	54 to 860 MHz
Adjacent channel loss:	4 dB typical
Response:	±0.50 dB
Pass band insertion loss:	1.5 dB max
Return loss:	14 dB
Impedance:	75 ohms
Stop band loss:	5 dB increments
Temperature:	-40° to 140° F

# Cable Equalizer or Simulator

## Models PDI-605CEQL & PDI-605CEQV



**Model PDI-605CEQL &  
PDI-605CEQV**  
Approx. 3.6" long  
Approx. 0.8" diameter.

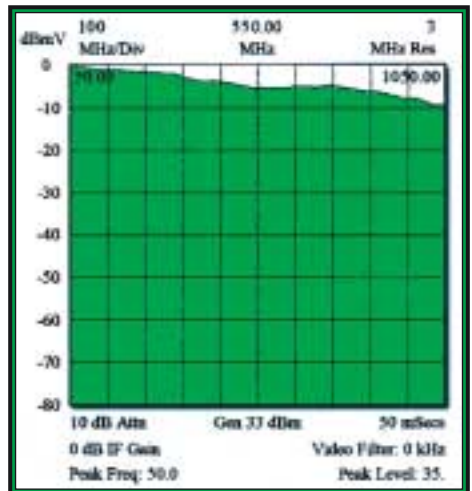
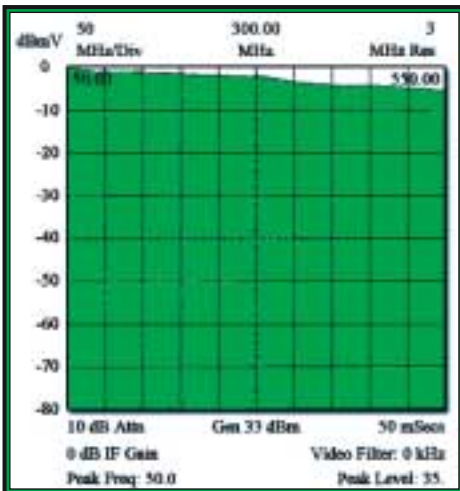
The PDI-605CEQL and PDI-605CEQV are inline equalizing devices that either compensate or simulate specific lengths of cable. They are designed to the highest frequency (pivot point) of any system, up to 1 GHz.

The 605CEQL is a cable equalizer that is used to balance tilt requirements on cable feeds. To order the proper balance for your system, fill in your specific requirements in the following equation:

$$\frac{420/550/750/1000}{\text{Hi end MHz}} \bigg/ \frac{1 \text{ to } 15}{\text{Compensation dB}} \bigg/ \frac{54 \text{ and up}}{\text{Low end MHz}} = \text{CEQL}550/6/54 \quad (\text{typical part numbers})$$

The 605CEQV is a cable simulating device that is typically deployed in longer type cable feeders. To order the proper filter for your system, fill in your specific requirements in the following equation:

$$\frac{54 \text{ and up}}{\text{Low end MHz}} \bigg/ \frac{1 \text{ to } 15}{\text{Compensation dB}} \bigg/ \frac{450/550/750/1000}{\text{High end MHz}} = \text{CEQV}54/6/550 \quad (\text{typical part numbers})$$



# Reverse Filters 5-40 MHz PDI-HPF

## USAGE:

The PDI-HPF is a **high-pass** filter that suppresses all spurious sub low noise from entering the return path of a CATV system by blocking 5 - 40MHz and passing 54MHz through 1GHz. Other window versions are available on special order.

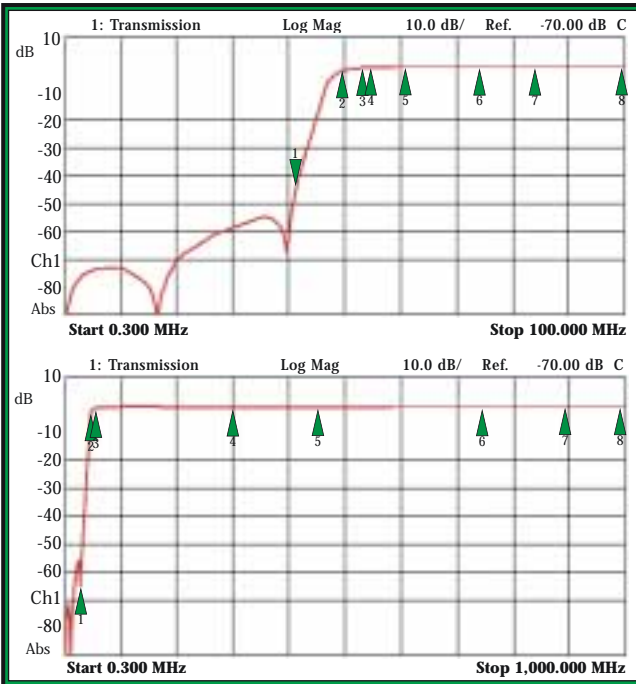
## KEY FEATURES:

- Blocks 5-40MHz and passes 54MHz - 1GHz
- Weather resistant brass housing
- Hexagonal shape for easier installation
- Hybrid design
- Spurious sub-low noise suppressed >-55dB
- Minimizes input of noise on return path information
- 100% quality inspected



Actual Size

## FREQUENCY RESPONSE PLOTS FOR MODEL PDI-HPF



Mkr (MHz)	dB (TYP.)	
1:	42.00	-40.51
2:	50.00	-1.98
3:	54.00	-1.44
4:	55.25	-1.41
5:	61.25	-0.97
6:	75.00	-0.67
7:	85.00	-0.63
8:	100.00	-0.48

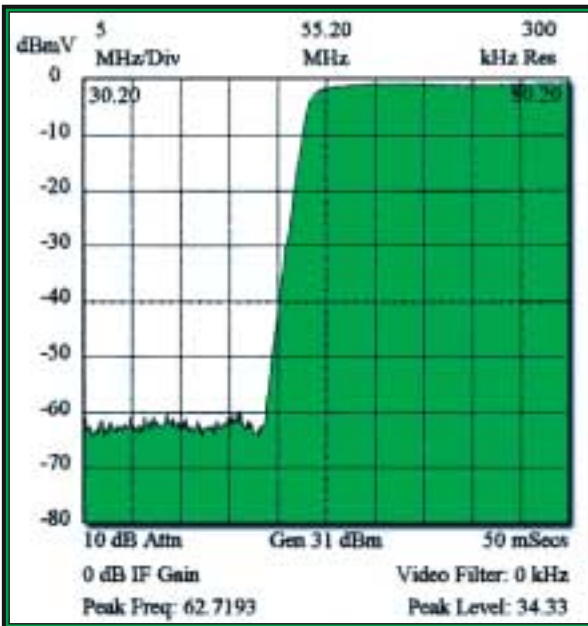
Mkr (MHz)	dB (TYP.)	
1:	40.00	-62.89
2:	50.00	-2.05
3:	54.00	-1.44
4:	300.00	-0.52
5:	450.00	-0.53
6:	750.00	-0.54
7:	900.00	-0.56
8:	1000.00	-0.56

# Trunk Filter, 14 AMP Model PDI-5411



Model PDI-5411  
Dimensions: 5 1/2"W x 4 3/4"H x 3"D

The PDI-5411 is a power passing, temperature stable filter designed for trunk or distribution cable applications. It is extremely valuable for blocking sub channel noise from motels and apartment complexes feeding back on a return path. All filter configurations, single channel notch, low pass, high pass, tier or bandpass are available.



## SPECIFICATIONS:

Spectrum available:	0-860 MHz
Passband response:	±0.5 dB
Impedance:	75 ohms
Power passing:	14 amps
Specific filter specifications:	Furnished with design

# Power Bypass 14 Amp Model PDI-PBPO & Model PDI-EVPBP



**Model PDI-PBPO**  
Dimensions: 5 1/2"W x 4 3/4"H x 3"D



**Model PDI-EVPBP**  
Dimensions: 4 1/4"W x 1 7/8"H x 5"D

The PDI-EVPBP and PDI-PBPO are bypass power devices that route power around passive devices that cannot be power operated.

The PBPO is a strand mount outdoor device. This unit is capable of handling 14 amps 60/90 VAC/VDC. The RF pass band is 5 MHz to 1 GHz.

The EVPBP is a rack mounted indoor device that routes power around passive devices that cannot be power operated.

## SPECIFICATIONS:

Band pass:	5 MHz - 1 GHz
Insertion loss:	1.5 dB
Return loss:	14 dB
Impedance:	75 ohms
Power passing:	14 amp
Voltage:	60/90 VAC/VDC
AC ports:	Stinger 5/8
RF ports:	F Female

# Frequency Allocation Chart Headend & Earth Station (cont.)

EA Channel Number	Historical designation	Video carrier	Standard Color subcarrier	Audio carrier	Video carrier	IRC Color subcarrier	Audio carrier	Video carrier	IRC Color carrier	Audio carrier
37	AA	301.2625	304.8420	305.7625	300.0150	303.5945	304.5150	301.2625	304.8420	305.7625
38	BB	307.2625	310.8420	311.7625	306.0150	309.5945	310.5150	307.2625	310.8420	311.7625
39	CC	313.2625	316.8420	317.7625	312.0150	315.5951	316.5156	313.2625	316.8420	317.7625
40	DD	319.2625	322.8420	323.7625	318.0150	321.5954	322.5159	319.2625	322.8420	323.7625
41	EE	325.2625	328.8420	329.7625	324.0162	327.5957	328.5162	325.2625	328.8420	329.7625
42	FF	331.275	334.8545	335.775	330.0165	333.5960	334.5165	331.275	334.8545	335.775
43	GG	337.2625	340.8420	341.7625	336.0168	339.5963	340.5168	337.2625	340.8420	341.7625
44	HH	343.2625	346.8420	347.7625	342.0171	345.5966	346.5171	343.2625	346.8420	347.7625
45	II	349.2625	352.8420	353.7625	348.0174	351.5969	352.5174	349.2625	352.8420	353.7625
46	JJ	355.2625	358.8420	359.7625	354.0177	357.5972	358.5177	355.2625	358.8420	359.7625
47	KK	361.2625	364.8420	365.7625	360.0180	363.5975	364.5180	361.2625	364.8420	365.7625
48	LL	367.2625	370.8420	371.7625	366.0183	369.5978	370.5183	367.2625	370.8420	371.7625
49	MM	373.2625	376.8420	377.7625	372.0186	375.5981	376.5186	373.2625	376.8420	377.7625
50	NN	379.2625	382.8420	383.7625	378.0189	381.5984	382.5189	379.2625	382.8420	383.7625
51	OO	385.2626	388.8420	389.7625	384.0192	387.5987	388.5192	385.2625	388.8420	389.7625
52	PP	391.2625	394.8220	395.7625	390.0195	393.5990	394.5195	391.2625	394.8420	395.7625
53	QQ	397.2625	400.8420	401.7625	396.0198	399.5993	400.5198	397.2625	400.8420	401.7625
54	RR	403.25	406.8295	407.75	402.0201	405.5996	406.5201	403.2625	406.8420	407.7625
55	SS	409.25	412.8295	413.75	408.0204	411.5999	412.5204	409.2625	412.8420	413.7625
56	TT	415.25	418.8295	419.75	414.0207	417.6002	418.5207	415.2625	418.8420	419.7625
57	UU	421.25	424.8295	425.75	420.0210	423.6005	424.5210	421.2625	424.8420	425.7625
58	VV	427.25	430.8295	431.75	426.0213	429.6008	430.5213	427.2625	430.8420	431.7625
59	WW	433.25	436.8295	437.75	432.0216	435.6011	436.5216	433.2625	436.8420	437.7625
60	XX	439.25	442.8295	443.75	438.0219	441.6014	442.5219	439.2625	442.8420	443.7625
61	YY	445.25	448.8295	449.75	444.0222	447.6017	448.5222	445.2625	448.8420	449.7625
62	ZZ	451.25	454.8295	455.75	450.0225	453.6020	454.5225	451.2625	454.8420	455.7625
63	AAA	457.25	460.8295	461.75	456.0228	459.6023	460.5228	457.2625	460.8420	461.7625
64	BBB	463.25	466.8295	467.75	462.0231	465.6026	466.5231	463.2625	466.8420	467.7625
65	CCC	469.25	472.8295	473.75	468.0234	471.6029	472.5234	469.2625	472.8420	473.7625
66	DDD	475.25	478.8295	479.75	474.0237	477.6032	478.5237	475.2625	478.8420	479.7625
67	EEE	481.25	484.8295	485.75	480.0240	483.6035	484.5240	481.2625	484.8420	485.7625
68	FFF	487.25	490.8295	491.75	486.0243	489.6038	490.5243	487.2625	490.8420	491.7625
69	GGG	493.25	496.8295	497.75	492.0246	495.6041	496.5246	493.2625	496.8420	497.7625
70	HHH	499.25	502.8295	503.75	498.0249	501.6044	502.5249	499.2625	502.8420	503.7625
71	II	505.25	508.8295	509.75	504.0252	507.6047	508.5252	505.2625	508.8420	509.7625
72	JJJ	511.25	514.8295	515.75	510.0255	513.6050	514.5255	511.2625	514.8420	515.7625
73	KKK	517.25	520.8295	521.75	516.0258	519.6053	520.5258	517.2625	520.8420	521.7625
74	LLL	523.25	526.8295	527.75	522.0261	525.6056	526.5261	523.2625	526.8420	527.7625
75	NNN	529.25	532.8295	533.75	528.0264	531.6059	532.5264	529.2625	532.8420	533.7625
76	NNN	535.25	538.8295	539.75	534.0267	537.6062	538.5267	535.2625	538.8420	539.7625
77	OOO	541.25	544.8295	545.75	540.0270	543.6065	544.5270	541.2625	544.8420	545.7625
78	PPP	547.25	550.8295	551.75	546.0273	549.6068	550.5273	547.2625	550.8420	551.7625
79	QQQ	553.25	556.8295	557.75	552.0276	555.6071	556.5276	553.2625	556.8420	557.7625
80	RRR	559.25	562.8295	563.75	558.0279	561.6074	562.5279	559.2625	562.8420	563.7625
81	SSS	565.25	568.8295	569.75	564.0282	567.6077	568.5282	565.2625	568.8420	569.7625
82	TTT	571.25	574.8295	575.75	570.0285	573.6080	574.5285	571.2625	574.8420	575.7625
83	UUU	577.25	580.8295	581.75	576.0288	579.6083	580.5288	577.2625	580.8420	581.7625
84	VVV	583.25	586.8295	587.75	582.0291	585.6086	586.5291	583.2625	586.8420	587.7625
85	WWW	589.25	592.8295	593.75	588.0294	591.6089	592.5294	589.2625	592.8420	593.7625
86	XXX	595.25	598.8295	599.75	594.0297	597.6092	598.5297	595.2625	598.8420	599.7625

# Frequency Allocation Chart Headend & Earth Station

**The following table is updated from the June 1988 "Tech Book" with +12.5 kHz and +25 kHz offsets for compliance with Federal Communications Commission Part 78.612. All frequencies are in MHz.**

EA Channel Number	Historical designation	Video carrier	Standard Color subcarrier	Audio carrier	Video carrier	IFSC Color subcarrier	Audio carrier	Video carrier	IFSC Color carrier	Audio carrier
—	T-7	7.00	16.5795	11.50						
—	T-8	13.00	16.5795	17.50						
—	T-9	19.00	22.5795	23.50						
—	T-10	25.00	28.5795	29.50						
—	T-11	31.00	34.5795	35.50						
—	T-12	37.00	40.5795	41.50						
—	T-13	43.00	46.5795	47.50						
2	2	55.25	55.8295	55.75	54.9027	57.5827	58.5827	55.2625	55.8420	55.7625
3	3	61.25	61.8295	61.75	60.3030	63.9825	64.5830	61.2625	61.8420	61.7825
4	4	67.25	70.8295	71.75	68.3033	69.5828	70.5833	67.2625	70.8420	71.7625
1	A-6	—	—	—	73.0036	75.9827	76.5830	73.2625	76.8420	77.7625
5	5	77.25	80.8295	81.75	78.0039	81.5834	82.5839	78.2625	82.8420	83.7625
6	6	83.25	89.8295	87.75	84.0042	87.5837	88.0042	83.2625	89.8420	89.7625
85	A-5	91.25	94.8295	89.75	90.0045	93.5840	94.5845	91.2625	94.8420	95.7625
86	A-4	97.25	100.8295	95.75	96.0048	96.5843	100.5048	97.2625	100.8420	101.7625
87	A-3	103.25	108.8295	107.75	102.0051	106.5846	109.5051	103.2625	106.8420	107.7625
88	A-2	108.25	112.8545	113.775	108.0250	111.6046	112.6253	108.275	113.8545	113.775
89	A-1	112.25	118.8545	118.775	114.0250	117.6046	118.6253	112.275	118.9545	118.775
14	A	121.2625	124.8420	125.7825	120.0690	125.5856	124.5063	121.2625	124.8420	125.7825
15	B	127.2625	130.8420	131.7825	126.0693	129.5859	130.5066	127.2625	130.8420	131.7825
16	C	133.2625	136.8420	137.7825	132.0696	136.5861	136.5066	133.2625	136.8420	137.7825
17	D	138.25	142.8295	143.75	138.0090	141.5864	142.5088	138.2625	142.8420	143.7625
18	E	145.25	148.8295	148.75	144.0072	147.5867	148.5072	145.2625	148.8420	148.7625
19	F	151.25	154.8295	154.75	150.0075	153.5870	154.5075	151.2625	154.8420	155.7625
20	G	157.25	160.8295	161.75	156.0078	159.5873	160.5078	157.2625	160.8420	161.7625
21	H	163.25	166.8295	167.75	162.0081	165.5876	166.5081	163.2625	166.8420	167.7625
22	I	168.25	172.8295	173.75	168.0084	171.5879	172.5084	168.2625	172.8420	173.7625
7	J	175.25	178.8295	179.75	174.0087	177.5882	178.5087	175.2625	178.8420	179.7625
8	B	181.25	184.8295	185.75	180.0090	183.5885	184.5090	181.2625	184.8420	185.7625
9	9	187.25	190.8295	191.75	186.0093	189.5888	190.5093	187.2625	190.8420	191.7625
10	10	193.25	196.8295	197.75	192.0096	195.5891	196.5096	193.2625	196.8420	197.7625
11	11	198.25	202.8295	203.75	198.0099	201.5894	202.5099	198.2625	202.8420	203.7625
12	12	205.25	208.8295	209.75	204.0102	207.5897	208.5102	205.2625	208.8420	209.7625
13	13	211.25	214.8295	215.75	210.0105	213.5900	214.5105	211.2625	214.8420	215.7625
23	J	217.25	220.8295	221.75	216.0108	219.5903	220.5108	217.2625	220.8420	221.7625
24	K	223.25	226.8295	227.75	222.0111	225.5906	226.5111	223.2625	226.8420	227.7625
25	L	229.2625	232.8420	233.7825	228.0114	231.5909	232.5114	229.2625	232.8420	233.7825
26	M	235.2625	238.8420	239.7825	234.0117	237.5912	238.5117	235.2625	238.8420	239.7825
27	N	241.2625	244.8420	245.7825	240.0120	243.5915	244.5120	241.2625	244.8420	245.7825
28	O	247.2625	250.8420	251.7825	246.0123	249.5918	250.5123	247.2625	250.8420	251.7825
29	P	253.2625	256.8420	257.7825	252.0126	255.5921	256.5126	253.2625	256.8420	257.7825
30	Q	259.2625	262.8420	263.7825	258.0129	261.5924	262.5129	259.2625	262.8420	263.7825
31	R	265.2625	268.8420	269.7825	264.0132	267.5927	268.5132	265.2625	268.8420	269.7825
32	S	271.2625	274.8420	275.7825	270.0135	273.5930	274.5135	271.2625	274.8420	275.7825
33	T	277.2625	280.8420	281.7825	276.0138	279.5933	280.5138	277.2625	280.8420	281.7825
34	U	283.2625	286.8420	287.7825	282.0141	285.5936	286.5141	283.2625	286.8420	287.7825
35	V	289.2625	292.8420	293.7825	288.0144	291.5939	292.5144	289.2625	292.8420	293.7825
36	W	295.2625	298.8420	299.7825	294.0147	297.5942	298.5147	295.2625	298.8420	299.7825