

Pre-Amplifier



Filter



Pre-Amplifier on S21 port using Echo's battery power

**Expand the capabilities of the VIA Echo 1000SF or 2500's Spectrum Analyzer** using the optional Pre-Amplifier and /or any of 10 different filters. The Pre-Amplifier improves the Echo's noise floor down to -125dB and can operate from the Echo's rechargeable batteries or from AC wall power via the Echo's charging adapter. The filters do not require power. See the table on the reverse for all types available and performance characteristics.

## Features

- Light-weight and easy to install
- Rugged N-Connectors
- Pre-Amplifier powers from Echo's batteries or AC wall adapter
- Easy F-key selection
- Filters available in individual bands, combined AM/FM bands, or sub-UHF bands

## Benefits

- Pre-Amplifier expands Echo's Spectrum Analyzer's capabilities
- Filters can be combined to suit user requirements for band pass or band rejection

## Part Numbers

6025-0290..... Pre-Amplifier

### Filters

6025-0295-1..... AM & FM Rejection – HPF & Notch

6025-0295-2..... AM Rejection – HPF

6025-0295-3..... FM Rejection – Notch

6025-0295-4..... FM Band Pass Filter

6025-0295-5..... VHF High Pass Filter

6025-0295-6..... Low UHF High Pass Filter

6025-0295-7..... Mid UHF High Pass Filter

6025-0295-8..... High UHF High Pass Filter

6025-0295-9..... PCS 900 Band Pass Filter

6025-0295-10..... PCS 1900 Band Pass Filter

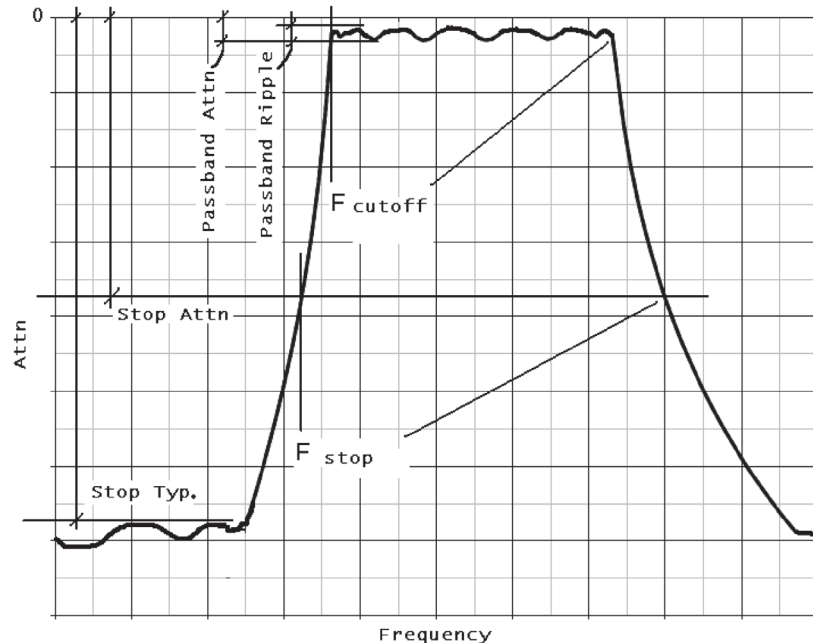


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Made in the USA

Part No. Extension	Description	Filter Type	Passband Ripple (dB)	Passband Attn Max (dB)	Fcutoff (MHz)	Fstop (MHz)	Stop attn (dB)	Stop Band Typical (dB)
- 1	AM & FM Rejection	HPF & Notch	<1.0	<1.5	See - 2 & - 3			
- 2	AM Reject.	HPF	<1.0	<1.5	1.95	1.61	70	80
- 3	FM Reject.	Notch	<1.0	<1.5	68	76	35	70
					119	108	35	80
- 4	FM Band	BPF	<1.0	<1.5	78	108	40	80
					108	124	25	70
- 5	VHF	HPF	<1.0	<1.5	124	108	40	80
- 6	Low UHF	HPF	<1.0	<1.5	300	255	40	80
- 7	Mid. UHF	HPF	<1.0	<1.5	1000	850	40	80
- 8	High UHF	HPF	<1.0	<1.5	1500	1300	40	80
- 9	PCS 900	BPF	<1.0	<1.5	800	750	40	80
					960	1050	40	80
- 10	PCS 1900	BPF	<1.0	<1.5	1700	1600	40	80
					2000	2150	40	80



## Specifications

### Pre-Amplifier

Gain	44 dB nominal
Bandwidth	2.2 GHz nominal
Noise Figure	3.5 dB nominal
Power	7-15 VDC, 60 mA

### Pre-Amp & Filters Physical

Size including N-Connectors	3.75 x 1.375 x 1.375 inches (94 x 33 x 33 mm)
Weight	4.5 oz (126 grams)

## Notes

1. HPF = High Pass Filter  
BPF = Band Pass Filter
2. Characteristics specified for 0 - 2.5GHz
3. Filter types -1, -2, or -3 may be combined with types -5 through -10 for improved broadcast rejection.
4. Filter type -4 only combines with type -2



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