

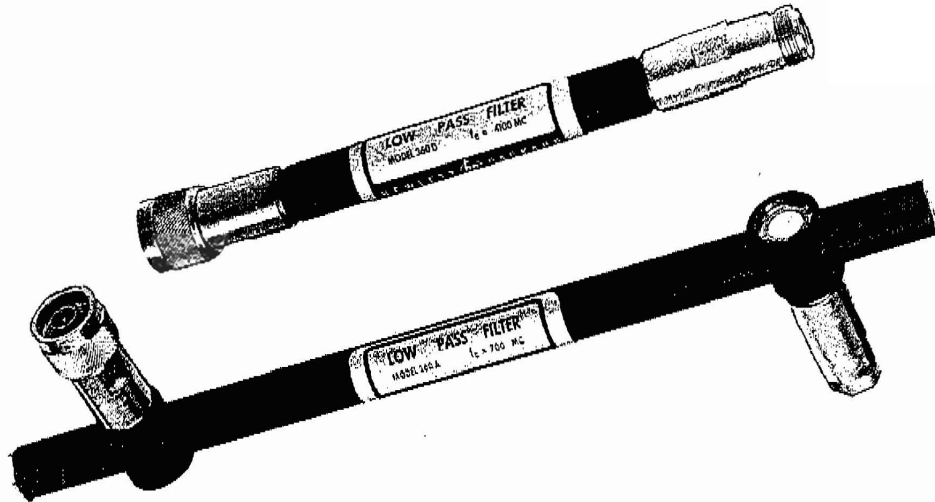


**TECHNICAL DATA**



**360A-D  
LOW PASS  
FILTER**

Revised 10/15/64



ADVANTAGES

- Low insertion loss through band pass
- Greater than 50 db attenuation beyond cut-off frequency
- No spurious responses

USES

- Spectrum analyzer preselector

With signal generator or signal source in:

- Slotted line measurements
- Checking filter characteristics
- Determining response

DESCRIPTION

The Model 360 Low Pass Filters are designed to facilitate microwave measurements by eliminating harmonics generated by the signal source. Elimination of harmonics is important in making slotted-line measurements, in checking filter characteristics, in determining receiver response and in many other applications. These filters can also be used as preselectors with the 851A/8551A Spectrum Analyzer. As such they permit analysis of signals below the filter cutoff frequency without interference from higher-frequency signals.

CIRCUIT

Model 360 filters consist of a brass tube housing a multi-section coaxial type filter. The ends are terminated in type N fittings, one male and one female. Attenuation in the pass band is less than 1 db; and attenuation in the rejection band is more than 50 db. There is no spurious response up to three times cut-off frequency.

COMPLETE COVERAGE IN  
ELECTRONIC MEASURING EQUIPMENT

**HEWLETT-PACKARD COMPANY**  
1501 PAGE MILL ROAD PALO ALTO, CALIFORNIA, U.S.A. CABLE: "HEWPACK" TEL. (415) 326-7000



54 ROUTE DES ACACIAS GENEVA, SWITZERLAND CABLE: "HEWPACKSA" TEL. (022) 42.81.30

**SPECIFICATIONS**

**CUT-OFF FREQUENCY:**

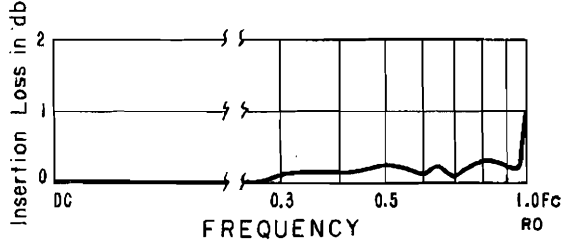
360A	700 Mc
360B	1200 Mc
360C	2200 Mc
360D	4100 Mc

**IMPEDANCE:**

50 ohms through pass band. Should be matched for optimum performance.

► **INSERTION LOSS:**

Not over 1 db below 0.9 times cut-off frequency



Typical Bandpass Characteristics

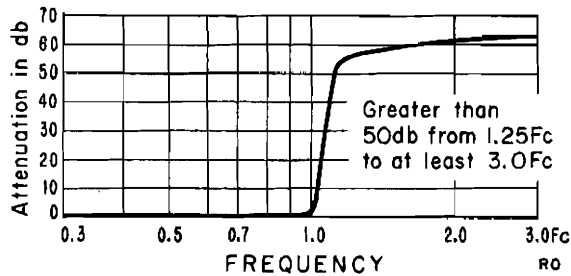
**STANDING WAVE RATIO:** Less than 1.6 to within 100 Mc of cut-off for 360A and 360B, 200 Mc of cut-off for 360C, 300 Mc of cut-off for 360D.

► **PHYSICAL CHARACTERISTICS**

Model	Overall Length		O.D.	
	(in.)	(mm)	(in.)	(mm)
360A	10-7/8	276	5/8	16
360B	7-7/32	183	5/8	16
360C	10-25/32	274	5/8	16
360D	7-3/8	187	5/8	16

**REJECTION:**

50 db or more attenuation at 1.25 x cut-off frequency



Typical Rejection Characteristics

Distance from Center Line to End of Offset, Type N Connector				
Model	Male Offset		Female Offset	
	(in.)	(mm)	(in.)	(mm)
360A	2-1/8	54	2-1/4	57
360B	2-1/8	54	2-1/4	57

► **SHIPPING WEIGHT:**

Approximately 2 lbs. (0,9 kg)

**PRICE:**

- Ⓢ Model 360A Low Pass Filter, 700 Mc - \$70.00
- Ⓢ Model 360B Low Pass Filter, 1200 Mc - \$60.00
- Ⓢ Model 360C Low Pass Filter, 2200 Mc - \$50.00
- Ⓢ Model 360D Low Pass Filter, 4100 Mc - \$50.00

Prices f. o. b. factory

**DATA SUBJECT TO CHANGE WITHOUT NOTICE**

► Indicates change from prior specifications.

5/12/64  
10/15/64