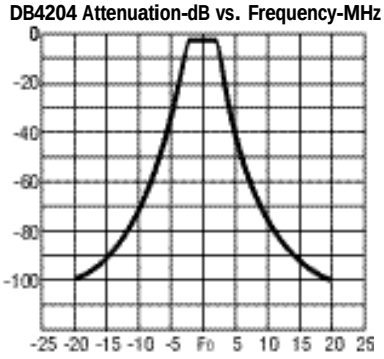
DB4204

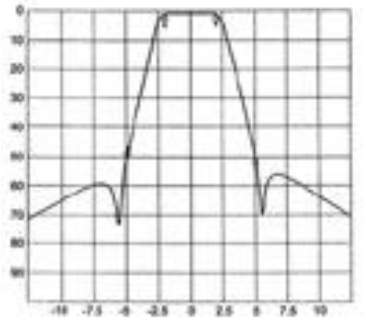
These mult-cavity shaped factored filters provide an essentially flat passband with a steep-sloped rejection characteristic to isolate undesired out-of-band frequencies.

- **Applications** – Aperture coupling makes the filter ideal for systems with 3.5 MHz bandwidth. Aperture coupling also allows the filter to be adapted to other applications. Consult Decibel Systems Engineering for advice on specific use of the DB4204 filter.
- **Excellent Design** – Materials are all copper. VSWR is 1.5 to 1 or better.
- **Frequency Stable** – At all power levels to 250 watts.
- **Low Insertion Loss** – At 3.5 MHz bandwidth the insertion loss is 1.5 dB maximum.

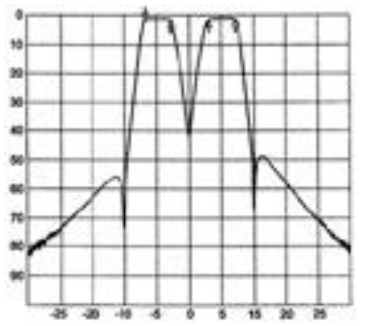
DB4204 Attenuation-dB vs. Frequency-MHz



DB3176 Attenuation-dB vs. Frequency-MHz



DB3626 Attenuation-dB vs. Frequency-MHz



Ordering Information

Model	Frequency – MHz	
DB4204-B	420-450	Single window filter
DB4204-C	450-470	Single window filter
DB3626	450-470	Dual window filter
DB3176	450-470	Single window filter

Electrical Data

	DB4204	DB3176	DB3626
Frequency Range – MHz	420-470	450-470	450
Continuous Power Input – watts	250	250	250
Bandwidth – MHz (max)	4.0	4.0	2/4.0
Insertion loss – dB		1.5 maximum	1.75 maximum
Isolation ±7 MHz from band center	50	60	50
Maximum VSWR	1.4 to 1	1.4 to 1	1.4 to 1
Impedance – ohms	50	50	50
Connector	N-Female	N-Female	N-Female
Temperature range – C°	-30 to +60	-30 to +60	-30 to +60

Mechanical Data

Dimension – in. (mm)			
Height	5.25 (133.35)	5.25 (133.35)	10.5 (266.7)
Width	19.0 (482.6)	19.0 (482.6)	19.0 (482.6)
Depth	10.0 (254)	10.0 (254)	10.0 (254)
Net weight – lbs. (kg)	12.5 (5.67)	12.5 (5.67)	25 (11.34)
Shipping weight – lbs. (kg)	18.5 (8.39)	18.5 (8.39)	28 (14.06)