

FM 4-Pole 160 mm Bandpass Filter

TS4E160F

FEATURES

- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Output Monitor Probe
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Heat Sinks

SPECIFICATIONS

Code / Revision	A-TS4E160F / A
No. of Poles / Cavity Size	4-Pole / 160 mm
Frequency Range / Bandwidth	87.5-108 MHz / 1.2-2.0 MHz
Temperature Stability	< 1.0 kHz/K
Max Operating Temperature (Body)	65 °C (149 °F)
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60
Dimensions / Weight ⁽¹⁾	
Operating Position	As shown in drawing only
Connectors ⁽²⁾	2x 32 mm Input; Output D-PC32C N Female D-PC32E 7-16 Female (Default) D-PC32G 7/8" <i>FastLine</i> Socket D-PC32H 7/8" <i>FastLine</i> Flange D-PC32J 1+5/8" <i>FastLine</i> Socket D-PC32K 1+5/8" <i>FastLine</i> Flange
Options ⁽²⁾	O-HTS.07 Heat Sinks

TUNING DATA ⁽²⁾

	1.2		1.0		0.8	
Bandwidth	1.2 MHz		1.0 MHz		0.8 MHz	
Tuning Code	T-4F.01		T-4F.02		T-4F.03	
Max RMS Input Power ⁽³⁾		(108 MHz)		(108 MHz)		(108 MHz)
	Default	1.2 kW	Default	1.0 kW	Default	850 W
	Heat Sinks	1.5 kW	Heat Sinks	1.2 kW	Heat Sinks	1.0 kW
Efficiency (Typ.)	86%		84%		80%	
Insertion Loss		(87.5 MHz) (108 MHz)		(87.5 MHz) (108 MHz)		(87.5 MHz) (108 MHz)
	C.F.	< 0.63 dB < 0.64 dB	C.F.	< 0.76 dB < 0.78 dB	C.F.	< 0.93 dB < 0.95 dB
	±150 kHz	< 0.69 dB < 0.70 dB	±150 kHz	< 0.88 dB < 0.89 dB	±150 kHz	< 1.18 dB < 1.21 dB
Selectivity	C.F. ± 1.2 MHz	> 25 dB	C.F. ± 1.0 MHz	> 25 dB	C.F. ± 0.8 MHz	> 25 dB
Harmonic Attenuation ⁽⁶⁾	> 40 dB up to 324 MHz		> 40 dB up to 324 MHz		> 40 dB up to 324 MHz	
Return Loss (VSWR)	> 26 dB (1.11)		> 26 dB (1.11)		> 26 dB (1.11)	
Group Delay Variation	< 100 ns		< 250 ns		< 1500 ns	

⁽¹⁾ Approximate, default configuration ⁽²⁾ Other Connectors, Options, Tunings available ⁽³⁾ Altitude < 1500 m (4,900 ft.), Free air, Ambient temp. < 30 °C (86 °F)

⁽⁶⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter