

10.7 MHz- and 21.4 MHz-Series MCF Type: with a Built-in Transformer

■ Features

This is an integrated MCF with a built-in transformer which matched terminating impedance with MCF impedance.

- This product can be manufactured according to your requested terminating impedance.
- It can be designed and manufactured so that no adjustment is needed in the field.
- It has stable temperature characteristics.



RoHS Compliant
Directive 2002/95/EC

■ Specifications

Model	10A7.5CB	10A7.5DG	10A15CB	10A15DB	10A30CB	10A30DB
Number of poles	6	8	6	8	6	8
Nominal frequency	10.7 MHz					
3 dB Passband width	Min. ± 3.75 kHz		Min. ± 7.5 kHz		Min. ± 15 kHz	
Stop bandwidth	Max. ± 8.75 kHz at 45 dB	Max. ± 8.75 kHz at 70 dB	Max. ± 17.5 kHz at 45 dB	Max. ± 17.5 kHz at 70 dB	Max. ± 35 kHz at 45 dB	Max. ± 35 kHz at 70 dB
	Max. ± 12.5 kHz at 65 dB	Max. ± 12.5 kHz at 90 dB	Max. ± 25 kHz at 65 dB	Max. ± 25 kHz at 90 dB	Max. ± 50 kHz at 65 dB	Max. ± 50 kHz at 80 dB
Ripple	Max. 2 dB	Max. 2 dB	Max. 2 dB	Max. 2 dB	Max. 2 dB	Max. 2 dB
Insertion loss (insertion attenuation)	Max. 3.5 dB	Max. 4 dB	Max. 3 dB	Max. 3.5 dB	Max. 3 dB	Max. 3.5 dB
Guaranteed attenuation	Min. 65 dB Within ± 300 kHz	Min. 90 dB Within ± 300 kHz	Min. 65 dB Within ± 300 kHz	Min. 90 dB Within ± 300 kHz	Min. 65 dB Within ± 300 kHz Excluding Spurious	Min. 80 dB Within ± 300 kHz
Terminating impedance	50 Ω / 0 pF					
Operating temperature range	-20 to +70 °C					
Package type	D-152					
Ordering code	10A7.5CB-10.7M-FN15-835	10A7.5DG-10.7M-FN15-836	10A15CB-10.7M-FN15-837	10A15DB-10.7M-FN15-838	10A30CB-10.7M-FN15-758	10A30DB-10.7M-FN15-839

Model	21C7.5DD	21C15DCA	21C30DG
Number of poles		8	
Nominal frequency	21.4 MHz		
3 dB Passband width	Min. ± 3.75 kHz	Min. ± 7.5 kHz	Min. ± 15 kHz
Stop bandwidth	Max. ± 9 kHz at 65 dB	Max. ± 17.5 kHz at 65 dB	Max. ± 35 kHz at 65 dB
	Max. ± 12.5 kHz at 90 dB	Max. ± 25 kHz at 90 dB	Max. ± 50 kHz at 80 dB
Ripple	Max. 2 dB	Max. 2 dB	Max. 2 dB
Insertion loss (insertion attenuation)	Max. 4.5 dB	Max. 4 dB	Max. 4 dB
Guaranteed attenuation	Min. 90 dB Within ± 300 kHz	Min. 90 dB Within ± 300 kHz	Min. 80 dB Within ± 300 kHz
Terminating impedance	50 Ω // 0 pF		
Operating temperature range	-20 to +70 °C		
Package type	D-162		
Ordering code	21C7.5DD-21.4M-FN15-747	21C15DCA-21.4M-FN15-699	21C30DG-21.4M-FN15-594

■ Dimensions

