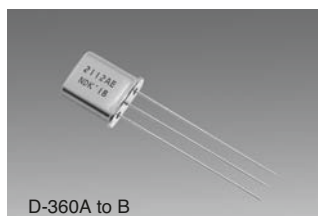


Fundamental 21.4 MHz- and 45 MHz-Series MCF

■ Features

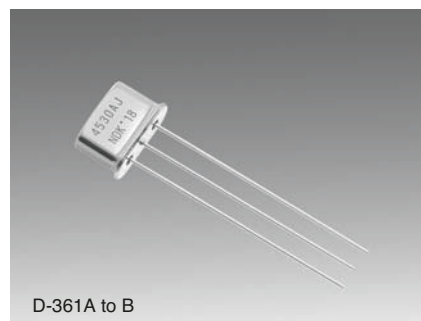
- Compact and light.
- Structure highly resistant to vibration and shock.



D-360A to B

Pb
Free

RoHS Compliant
Directive 2002/95/EC



D-361A to B

■ Specifications

Model	21N7.5A	21N7.5B	21N15A	21N15B	21N30A	21N30B
Number of poles	2	4	2	4	2	4
Nominal frequency	21.4MHz					
3 dB Passband width	Min. ± 3.75 kHz		Min. ± 7.5 kHz		Min. ± 15 kHz	
Stop bandwidth	Max. ± 18 kHz at 18 dB	Max. ± 14 kHz at 40 dB	Max. ± 30 kHz at 18 dB	Max. ± 25 kHz at 40 dB	Max. ± 50 kHz at 18 dB	Max. ± 50 kHz at 40 dB
Ripple	Max. 0.5 dB	Max. 1 dB	Max. 0.5 dB	Max. 1 dB	Max. 0.5 dB	Max. 1 dB
Insertion loss (insertion attenuation)	Max. 2 dB	Max. 2.5 dB	Max. 2 dB	Max. 2.5 dB	Max. 2 dB	Max. 2.5 dB
Guaranteed attenuation	Min. 30 dB Within ± 1 MHz	Min. 80 dB at $-(200 \text{ to } 1000)$ kHz Min. 65 dB at $+(350 \text{ to } 1000)$ kHz	Min. 30 dB Within ± 1 MHz	Min. 60 dB Within ± 1 MHz	Min. 30 dB Within ± 1 MHz	Min. 60 dB Within ± 1 MHz
Spurious characteristics	Min. 18 dB Within ± 1 MHz	—	Min. 18 dB Within ± 1 MHz	Min. 40 dB Within ± 1 MHz	Min. 7 dB Within ± 1 MHz	Min. 35 dB Within ± 1 MHz
Terminating impedance	$850 \Omega // 6 \text{ pF}$	$850 \Omega // 5 \text{ pF}$ $C_c = 16 \text{ pF}$	$1.6 \text{ k}\Omega // 1.3 \text{ pF}$	$1.6 \text{ k}\Omega // 1 \text{ pF}$ $C_c = 7 \text{ pF}$	$2.3 \text{ k}\Omega // 1 \text{ pF}$	$2.3 \text{ k}\Omega // 1 \text{ pF}$ $C_c = 3.5 \text{ pF}$
Operating temperature range	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C
Package type	D-360-A	D-360-B	D-360-A	D-360-B	D-360-A	D-360-B
Ordering code	21N7.5A-21.4M-MN15-083	21N7.5B-21.4M-MN15-102	21N15A-21.4M-MN15-060	21N15B-21.4M-MN15-055	21N30A-21.4M-MN15-281	21N30B-21.4M-MN15-091

Model	45S7.5AA	45S7.5BF	45S15A	45S15BU	45S30AJ	45S30BN
Number of poles	2	4	2	4	2	4
Nominal frequency	45MHz					
3 dB Passband width	Min. ± 3.75 kHz		Min. ± 7.5 kHz		Min. ± 15 kHz	
Stop bandwidth	Max. ± 12.5 kHz at 10 dB	Max. ± 12.5 kHz at 25 dB	Max. ± 30 kHz at 18 dB	Max. ± 22 kHz at 25 dB	Max. ± 50 kHz at 15 dB	Max. ± 50 kHz at 35 dB
Ripple	Max. 1 dB	Max. 1 dB	Max. 1 dB	Max. 1 dB	Max. 1 dB	Max. 1 dB
Insertion loss (insertion attenuation)	Max. 2 dB	Max. 4 dB	Max. 2 dB	Max. 4 dB	Max. 2 dB	Max. 4 dB
Guaranteed attenuation	Min. 65dB at -910 kHz	Min. 80dB at -910 kHz	Min. 60 dB at $-(900 \text{ to } 910)$ kHz Min. 40 dB at $+(300 \text{ to } 1000)$ kHz	Min. 80 dB at -910 kHz	Min. 40 dB at -910 kHz	Min. 80 dB at -910 kHz
Spurious characteristics	Min. 20 dB Within ± 1 MHz	Min. 40 dB Within ± 1 MHz	—	Min. 40 dB Within ± 1 MHz	Min. 5 dB Within ± 1 MHz	Min. 20 dB Within ± 1 MHz
Terminating impedance	$200 \Omega // 4 \text{ pF}$	$350 \Omega // 6.5 \text{ pF}$ $C_c = 18 \text{ pF}$	$470 \Omega // 6 \text{ pF}$	$650 \Omega // 3 \text{ pF}$ $C_c = 9 \text{ pF}$	$1.2 \text{ k}\Omega // 1.5 \text{ pF}$	$800 \Omega // 1.8 \text{ pF}$ $C_c = 6.5 \text{ pF}$
Operating temperature range	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C	-20 to $+70$ °C
Package type	D-361-A	D-361-B	D-361-A	D-361-B	D-361-A	D-361-B
Ordering code	45S7.5AA-45M-MN15-210	45S7.5BF-45M-MN15-384	45S15A-45M-MN15-229	45S15BU-45M-MN15-239	45S30AJ-45M-MN15-237	45S30BN-45M-MN15-236

■ Dimensions

