

CRYSTAL FILTERS

MCF FOR MCA (SURFACE MOUNT TYPE)

Compact, thin, 4 pole crystal filter for surface mounting with a built-in coupling condenser.

■ Features

- Ultra-small and thin (height 2.35mm)
- For surface mount (Emboss carries taping applicable)
- Coupling condenser is built-in (NM1170BA (D-372))
- Excellent shock resistance

■ Precaution

- Both low-temperature reflow soldering and laser soldering will do (Please check with us about temperature profile).

■ Application Note

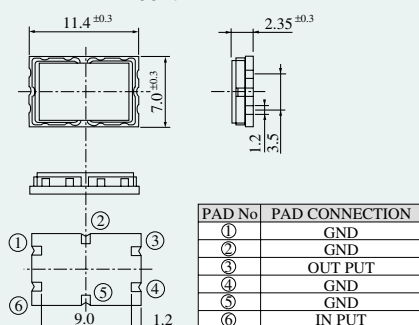
- External coupling condenser type is also available (Type: NM1170BB/D-373).

Model	45SC15BE	70SC20BA	90SC15B
Pole	4	4	4
Nominal Frequency	45MHz	70.05MHz	90MHz
3dB Pass Bandwidth	±7.5kHz min	±10kHz min	±7.5kHz min
Attenuation Bandwidth	35dB ±25kHz max	20dB ±25kHz max	25dB ±25kHz max
Ripple	2dB max	1dB max	2dB max
Insertion Loss	5dB max (minimum loss)	4.5dB max (minimum loss)	8dB max (minimum loss)
Guaranteed Attenuation	F ₀ -910kHz 80dB min	F ₀ ±910kHz 70dB min	F ₀ -910kHz 75dB min
Spurious	50dB min	35dB min	40dB min
Terminating Impedance	650Ω//2pF	300Ω//2pF	310Ω//2pF
Operating Temp. Range	-20~+70°C	-20~+60°C	-20~+70°C
Type	NM1170BA (D-372), NM1170BB (D-373)		

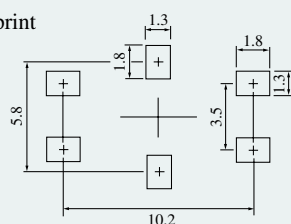
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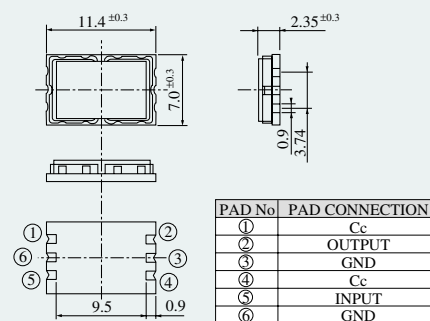
NM1170BA (D-372): Coupling condenser is built-in. (mm)



Reference footprint



NM1170BB (D-373) (mm)



Reference footprint

