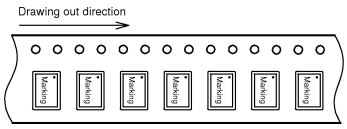
SPECIFICATION FOR CRYSTAL FILTER **Number: 92 333**
MCF 90.0-30/S2 **Drawing: 64 9513**

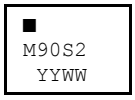
1. Electric values

1.0 Number of poles:		4
1.1 Nominal centre frequency fnom:		90 000 kHz (fundamental mode)
1.2 Bandwidth between 3 dB frequencies:		≥± 15 kHz
1.3 Ripple at fnom ± 10.5 kHz:		≤ 1.0 dB
1.4 Insertion loss:		≤ 3.5 dB
1.5 Stop band:	fnom ± 50 kHz:	≥ 30 dB
	fnom ± 130 kHz:	≥ 60 dB
1.6 Alternate attenuation:		≥ 60 dB (except spurious)
1.7 Terminating impedance	Input and Output :	450 Ohm // +1.6 pF
	Coupling capacitance:	+5.2 pF
1.8 Maximum input power level (working / non-damaged):		-10 / 0 dBm
1.9 Operating temperature range:		- 30°C … + 85°C
1.10 Case:		SMD 7 x 5 mm

1.11 Taping 1000 pcs. /reel maximum

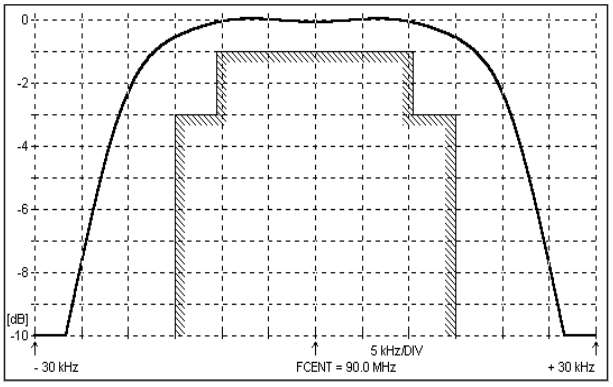


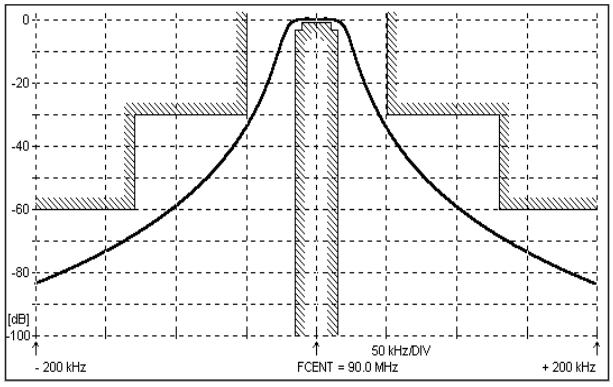
1.12 Marking on the case :



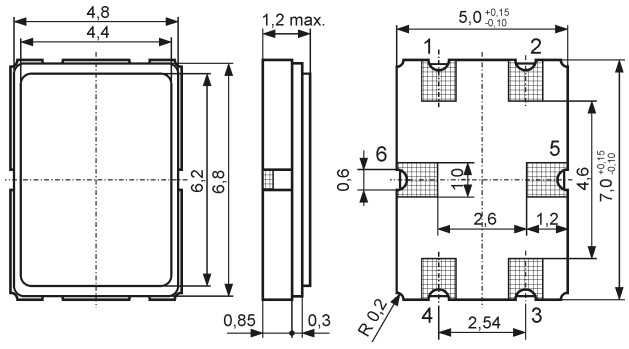
YY - year
WW – week
(or customer's marking)

2. Characteristics MCF 90.0-30/S2



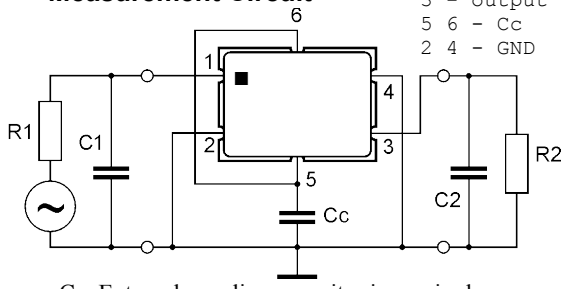


Dimensions[mm]



Measurement Circuit

1 - input
3 - output
5 6 - Cc
2 4 - GND



Cc: External coupling capacitor is required

edited	03.07.2014	P.Jungling

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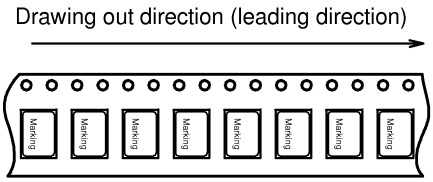
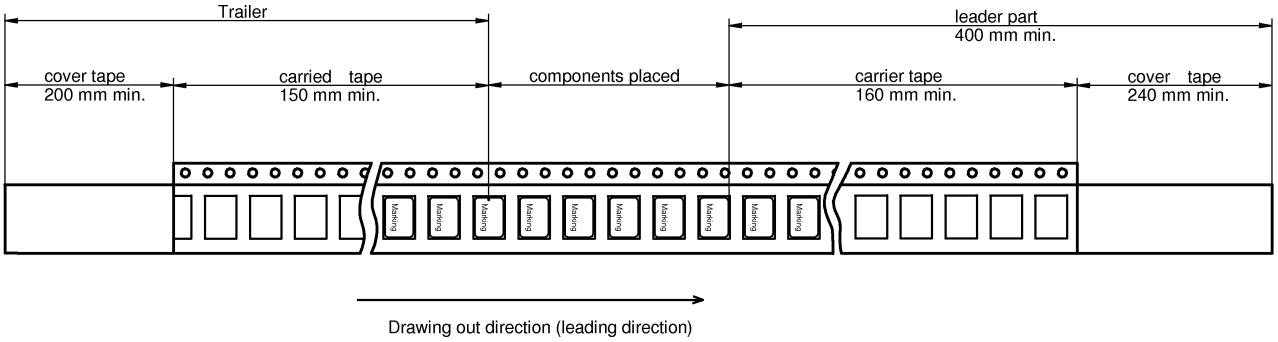
Filter SMD 7x5 mm - taping

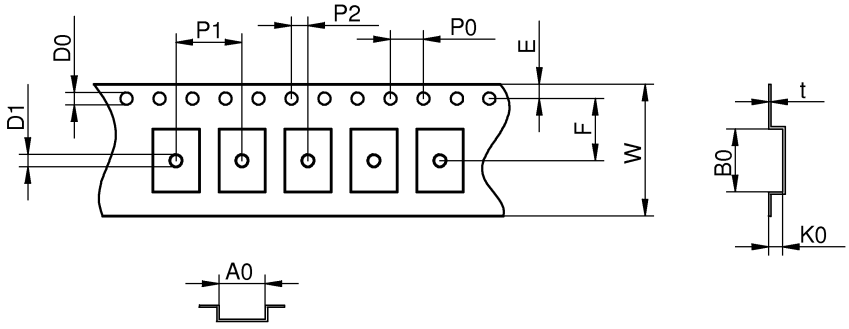


Tape dimension (mm)



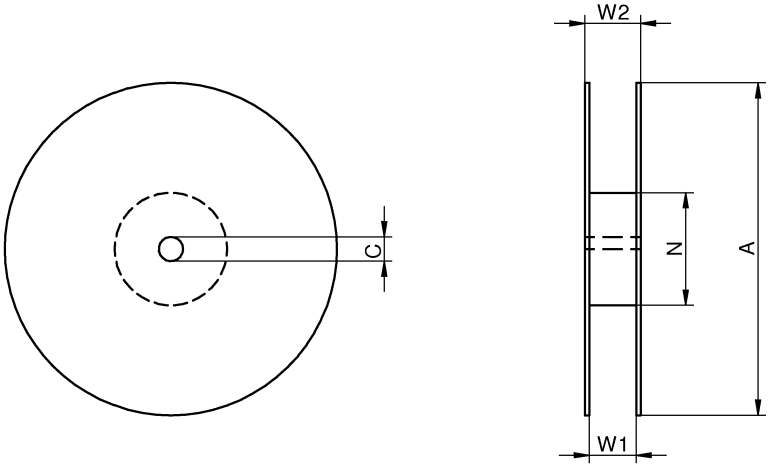
Tape (all dimensions in mm)

W:	16,0 ± 0,1
P0:	4,0 ± 0,1
P1:	8,0 ± 0,1
P2:	2,0 ± 0,1
D0:	1,5 + 0,1 / -0
D1:	1,6 + 0,1 / -0
E:	1,75 ± 0,1
F:	7,5 ± 0,1
K0:	1,7 ± 0,1
A0:	5,6 ± 0,1
B0:	7,6 ± 0,1
t:	0,3 ± 0,05

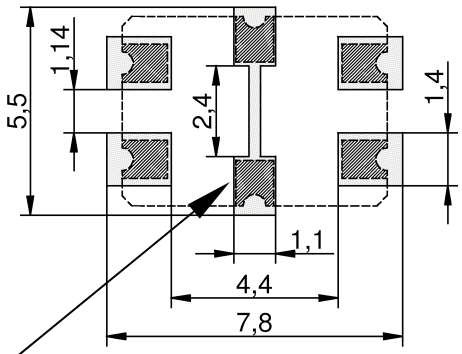


Reel (all dimension in mm)

A:	ϕ 178 ± 2
C:	ϕ 13 ± 0,5
N:	ϕ 60 ± 1
W1:	17,5 ± 1,5
W2:	21,5 ± 1,5



Recommended land pattern



Note:
Cc = coupling capacitance to ground must be including parasitic capacitance of PCB !

Reflow soldering: three times max.