

### Approvals & Compliances



### Features:

- Rated Current up to 60A
- Filters offer an optimized filtering range for high performance AC & DC applications.
- Standard attenuation performance
- Option like standard, Medical, surge Version
- Designed for easy and fast chassis mounting

### Applications:

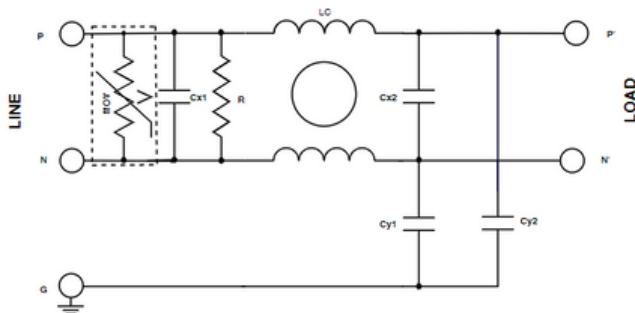
- Power Systems
- Consumer Goods
- Electronic Equipment
- Medical Equipment
- Frequency convertors
- Electronic Data processing Equipment
- UPS/Inverters

## DATASHEET

# SINGLE PHASE EMI FILTER - SMF2131

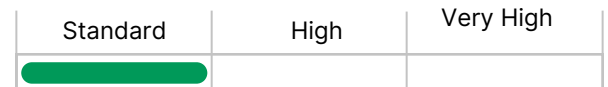
These series of filters designed for motor and power drive systems which can provide reliable attenuation performance and suppress conducted noise even when high interference level are present

### Type Circuit Diagram:

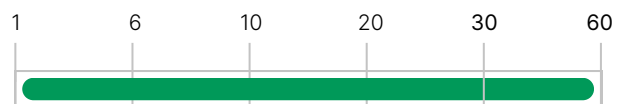


Surge option is available for both Standard and Medical versions .

### Performance Indicator:





### Rated Current (A):





## Technical Specifications:

Maximum Continuous Operating Voltage	: 250 VAC, 50/60Hz (UL Approval) 250VDC
Operating Frequency	: DC to 400Hz
Current ratings	: 1A to 60A @40°C
High Potential test voltage	: P to N 1414 VDC for 2 Sec (Except P type) P+N to G 2250VDC for 2 Sec P +N to G 1500VACfor 2 Sec (M Types)
Overload Capability	4x rated current at switch on, 1.5 x rated current for 1 minute, once per hour
Design Corresponding to	: UL 60939-3, CSA 22.2 No.8-13 and IEC 60939-1&2
Flammability corresponding to	: UL 94 V-0
Temperature range	: -25°C to +100°C
Climatic Category	: 25/100/21
Protection category	: IP20

## Ordering Information

Standard Version									
Model Number	Part Number	Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Min.Weight (g)
									
SMF2131-1-4	E110728-1	SMF2131P-1-4	E115001-1	1	0.37	0.8	-4	-	70
SMF2131-3-4	E110729-1	SMF2131P-3-4	E115002-1	3	0.37	1.1	-4	-	70
SMF2131-6-4	E110730-1	SMF2131P-6-4	E115003-1	6	0.37	1.7	-4	-	70
SMF2131-10-4	E110731-1	SMF2131P-10-4	E115004-1	10	0.37	2.5	-4	-	90
SMF2131-12-4	E110732-1	SMF2131P-12-4	E115005-1	12	0.37	3.6	-4	-	90
SMF2131-16-4	E110733-1	SMF2131P-16-4	E115006-1	16	0.37	2.5	-4	-	150
SMF2131-20-4	E110734-1	SMF2131P-20-4	E115007-1	20	0.37	3.8	-4	-	220
SMF2131-30-1	E110735-1	SMF2131P-30-1	E115008-1	30	0.8	6.3	-	-1 (M4)	480
SMF2131-60-1	E110736-1	SMF2131P-60-1	E115009-1	60	0.8	14.7	-	-1 (M6)	1200

Medical Version									
Model Number	Part Number	Model Number	Part Number	Current Rating @50°C(A)	Leakage Current @250 VAC/50Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Min.Weight (g)
									
SMF2131M-1-4	E110804-1	SMF2131MP-1-4	E115010-1	1	0	0.8	-4	-	70
SMF2131M-3-4	E110805-1	SMF2131MP-3-4	E115011-1	3	0	1.1	-4	-	70
SMF2131M-6-4	E110806-1	SMF2131MP-6-4	E115012-1	6	0	1.7	-4	-	70
SMF2131M-10-4	E110807-1	SMF2131MP-10-4	E115013-1	10	0	2.5	-4	-	90
SMF2131M-12-4	E110808-1	SMF2131MP-12-4	E115014-1	12	0	3.6	-4	-	90
SMF2131M-16-4	E110809-1	SMF2131MP-16-4	E115015-1	16	0	2.5	-4	-	150
SMF2131M-20-4	E110810-1	SMF2131MP-20-4	E115016-1	20	0	3.8	-4	-	220
SMF2131M-30-1	E110811-1	SMF2131MP-30-1	E115017-1	30	0	6.3	-	-1 (M4)	480
SMF2131M-60-1	E110812-1	SMF2131MP-60-1	E115018-1	60	0	14.7	-	-1 (M6)	1200

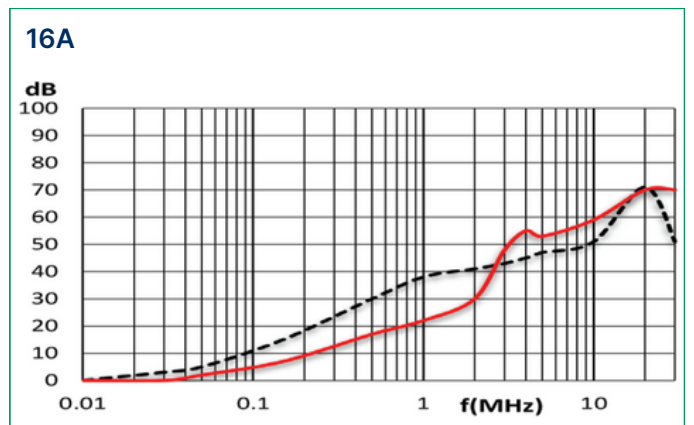
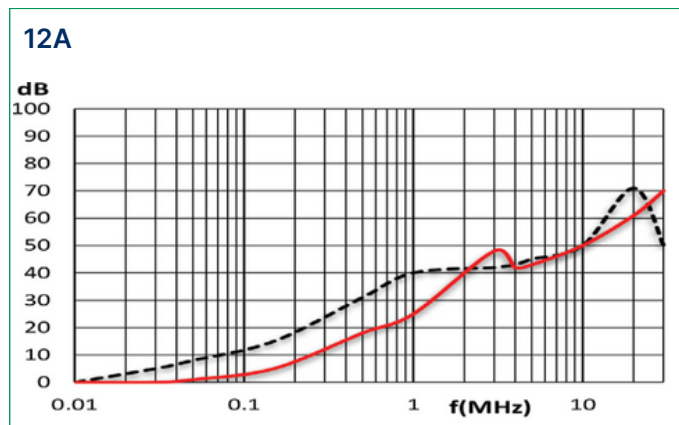
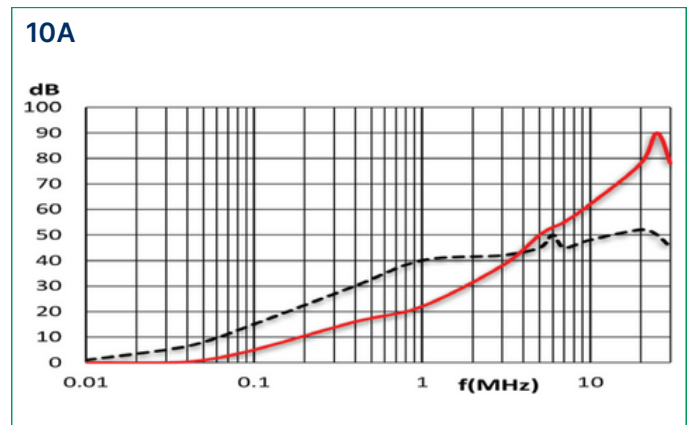
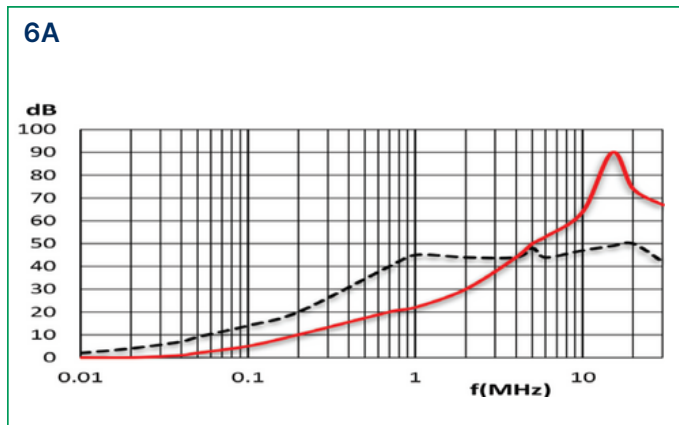
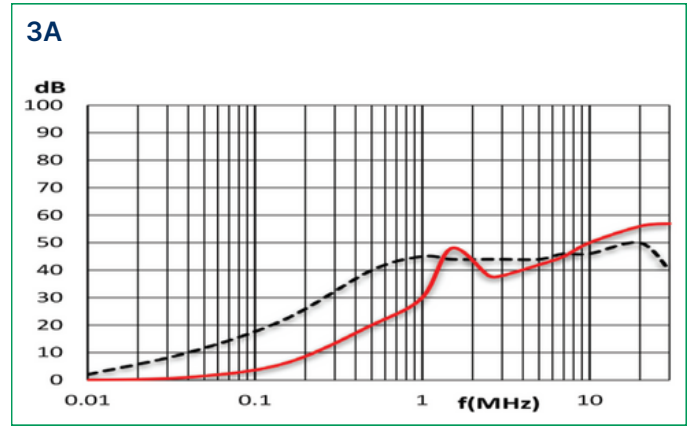
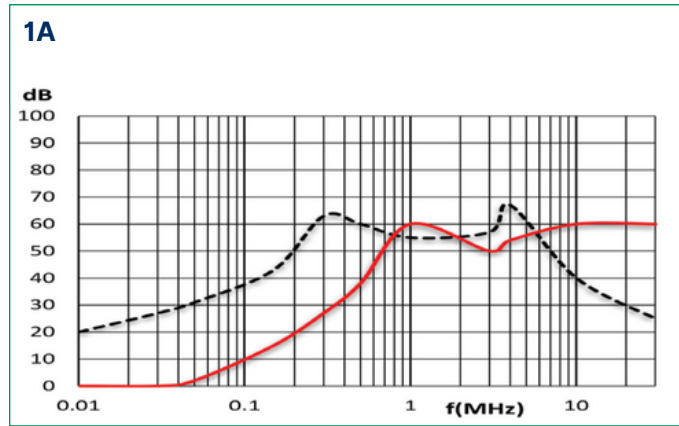
Note: For surge pulse protection, please add P(e.g. SMF2131P-10-04, SMF2131MP-20-4).

**Insertion Loss :**

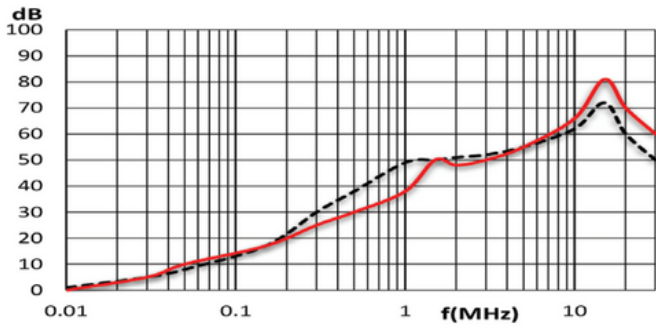
..... Common mode ——— Differential Mode

Per CISPR 17; C=50Ω/50Ω D=50Ω/50Ω

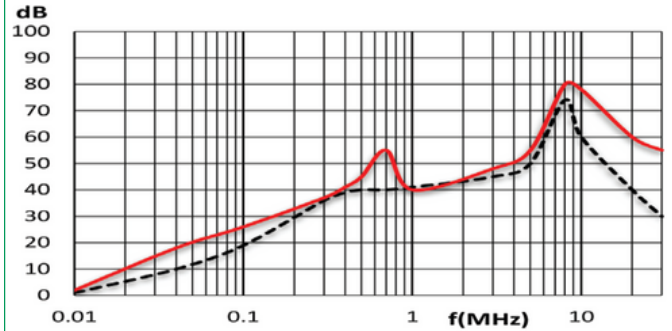
**Standard Version**



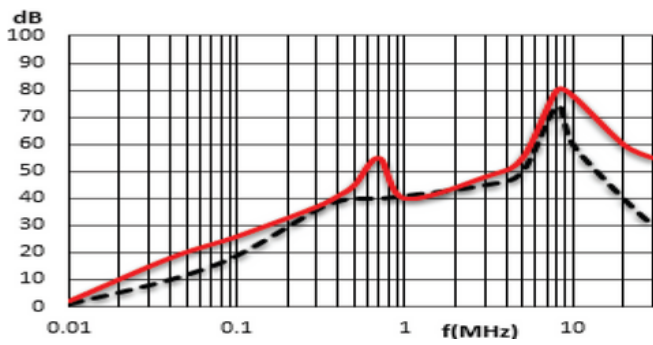
### 20A



### 30A

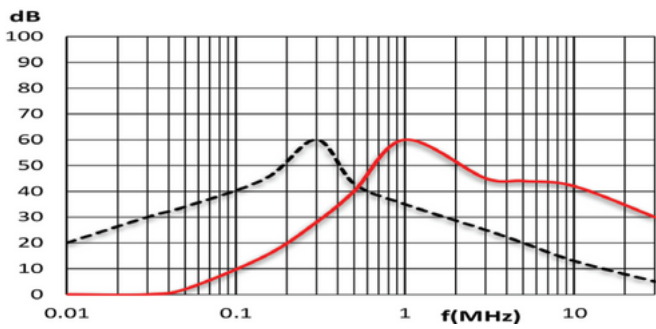


### 60A

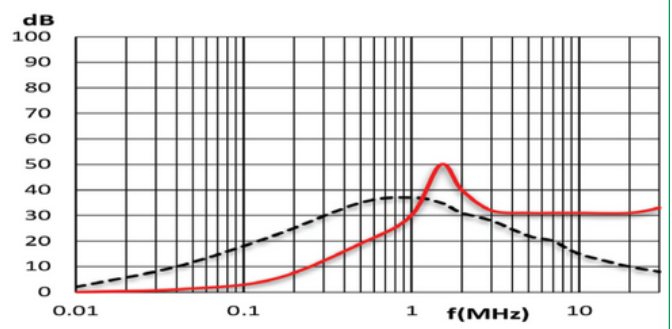


### Medical Version

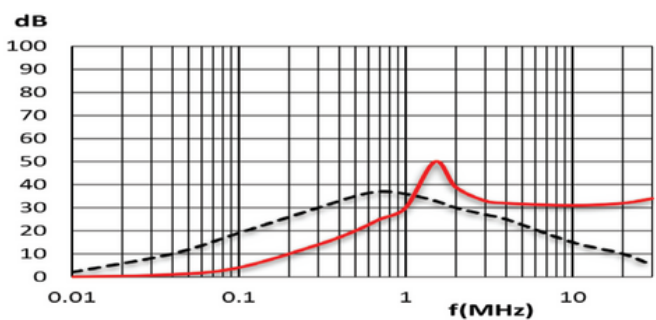
#### 1A



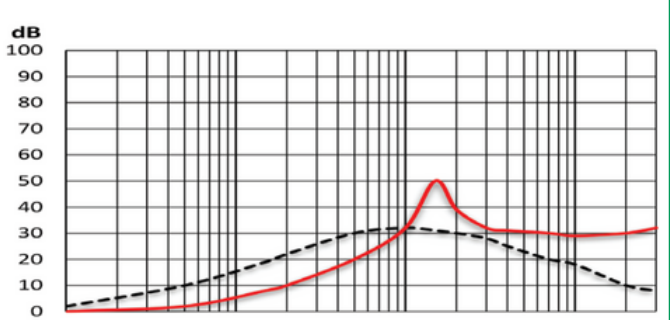
#### 3A



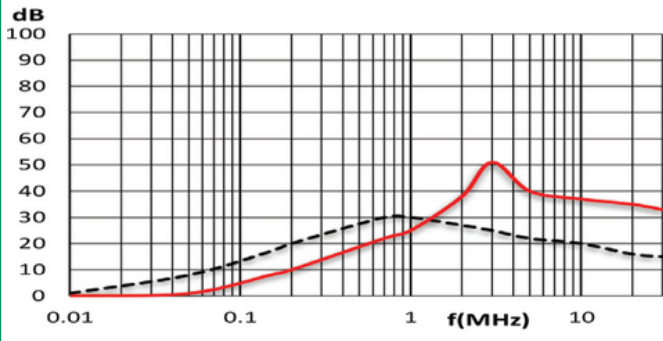
#### 6A



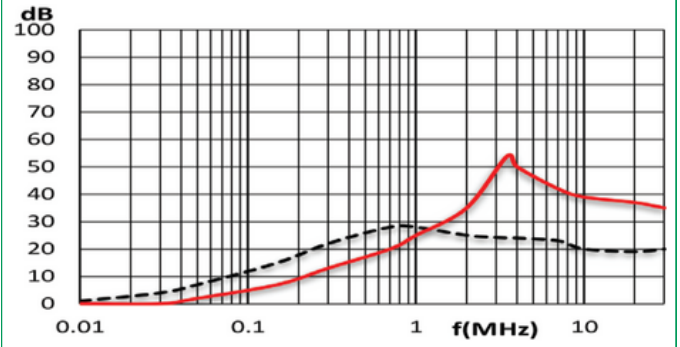
#### 10A



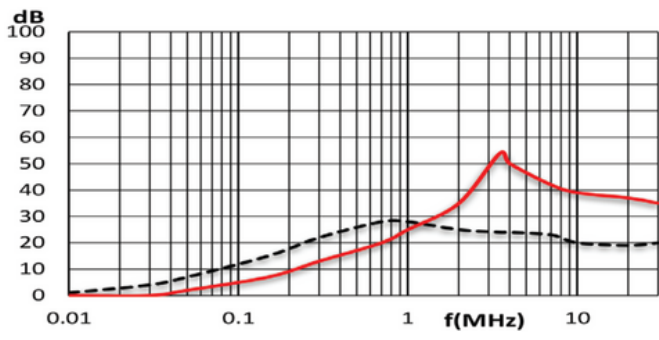
12A



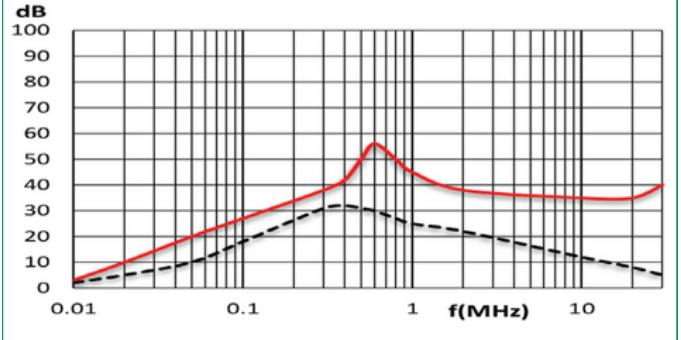
16A



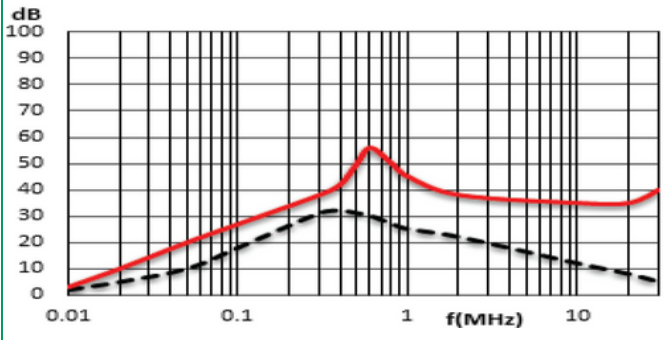
20A



30A

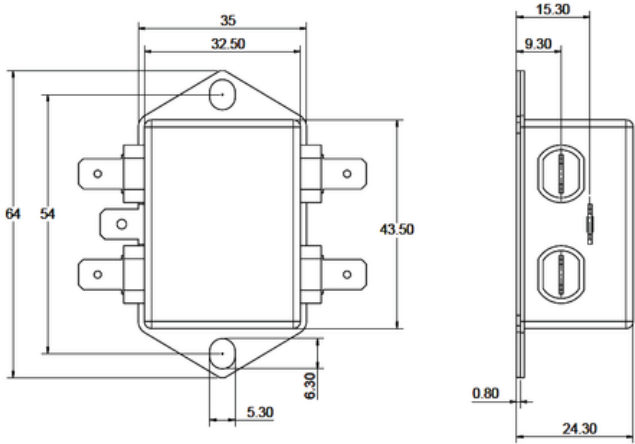


60A

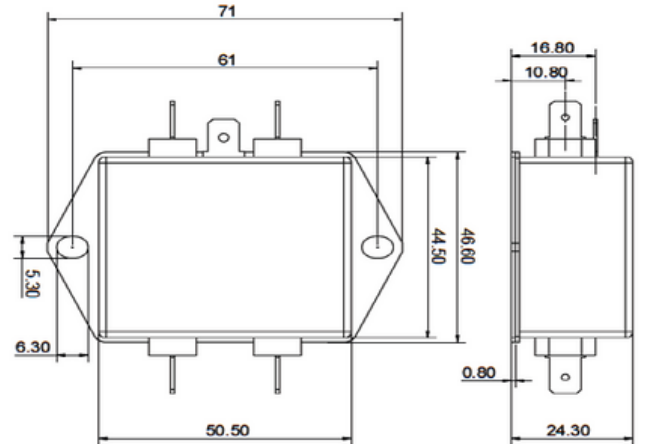


**Mechanical Drawing:**

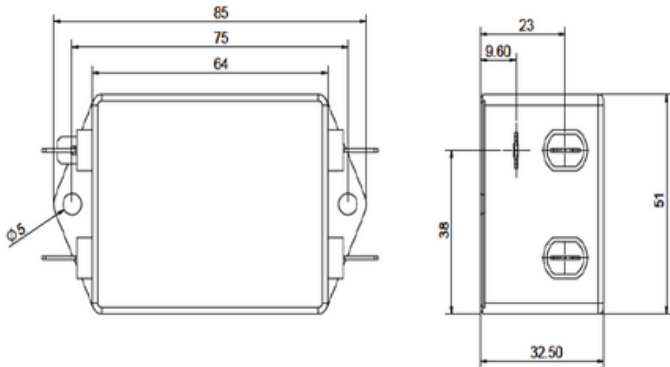
**Connection Style - 04, 1A to 12A Type**



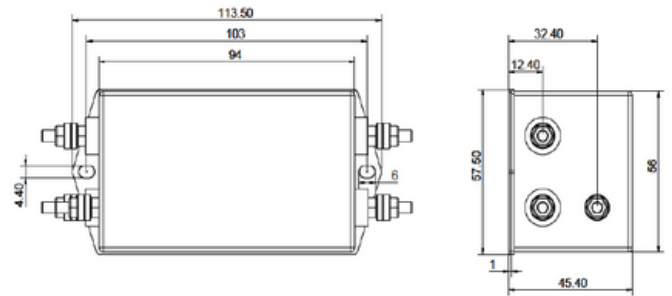
**Connection Style - 04, 16A Type**



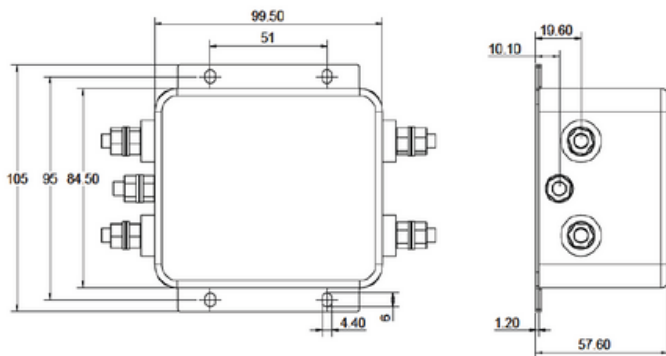
**Connection Style - 04, 20A Type**



**Connection Style - 01, 30A Type**



**Connection Style - 01, 60A Type**



All dimensions in mm; Tolerances according to ISO2768-C