



No. CPGG-LA250V**A111**

EMC filters

Feedthrough filters

Series/Type: LA250VA111****

Date: May 2019

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Feedthrough filters

Rated voltage V_R : 250V AC

Rated current I_R : 16A~500A

Rated capacitance C_R : $2 \times 0.0025\mu\text{F} \sim 2 \times 4.7\mu\text{F}$

Construction

Building-block system

MKP technology (dry, self-healing)

Dielectric: polypropylene, metallized

Metal case, polyurethane potting (UL 94 V-0)

For central screw fixing

Feature

Compact dimensions

Versions with rated voltage 440 V AC available on request

High insertion loss

Easy to install

High contact reliability thanks to central screw fixing

Comply with IEC 60939



Typical applications

shielded rooms

telephone exchanges, base stations

electrical machines and systems

power supplies

Terminal

Threaded studs

Axial leads

Marking on component

Manufacturer's logo, rated Voltage,

rated current, climatic category

Minimum data on packaging:

Manufacturer's logo, ordering code, quantity, date code

Circuit diagram



Feedthrough filters

Feedthrough filters Ø16 mm

Technical data and measuring conditions

Rated voltage V_R	250V AC (50/60Hz) /600V DC
Rated current I_R	16A
Capacitance tolerance	±20 %
Climatic category	40/085/21 (40°C/+85°C/21 days damp heat test)
Screw cap fixing	M10×0.75

Characteristics and ordering codes

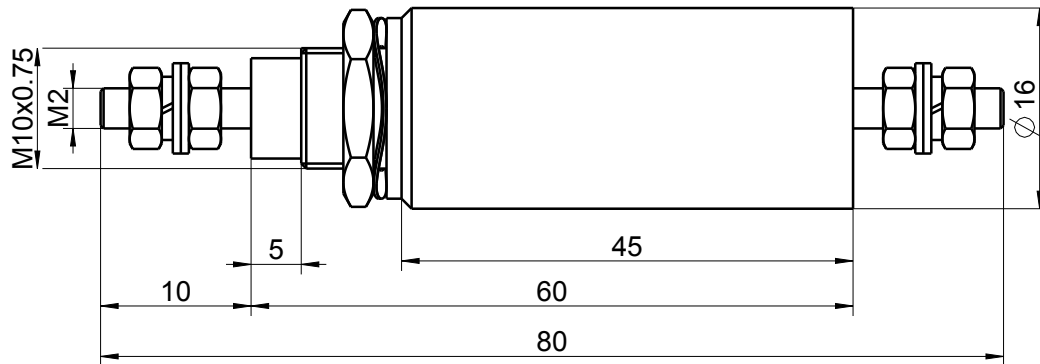
I_R	C_R	Terminal	Dimensions $\Phi d \times l$ (mm)	Ordering code
A	μF			
$V_R=250V$ AC, $V_R=600V$ DC, $V_{test}=2700V$ DC				
16	2×0.0025	M2	16×80	LA250V16A1111D
16	2×0.0025	2mm Axial leads	16×155	LA250V16A1111B

Insertion loss(dB); typical values at 50Ω

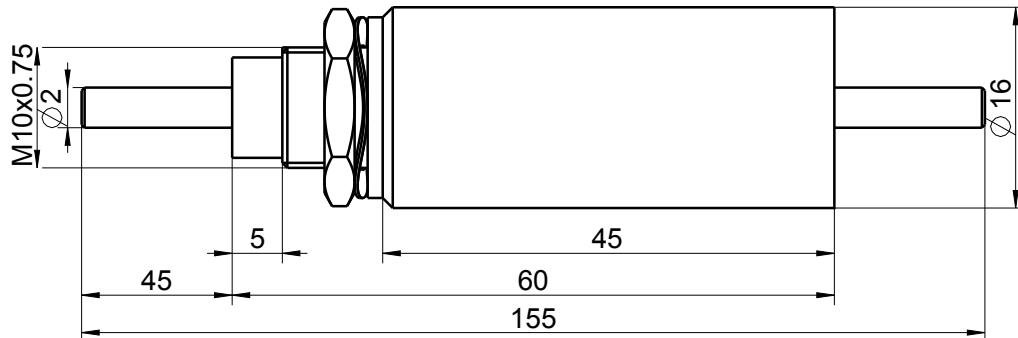
$C_R(\mu F)$	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz
2×0.0025	—	—	3	10	> 80	> 80

Dimensional drawing

LA250V16A1111D



LA250V16A1111B



General tolerances according to ISO 2768-cL

Dimensions in mm

Terminal	Tightening torque
M2	0.2±0.05 Nm

Screw cap fixing	Tightening torque
M10×0.75	3±0.5 Nm

Feedthrough filters Ø20 mm

Technical data and measuring conditions

Rated voltage V_R	250V AC (50/60Hz) /600V DC
Rated current I_R	32A
Capacitance tolerance	±20 %
Climatic category	40/085/21 (40°C/+85°C/21days damp heat test)
Screw cap fixing	M12×1

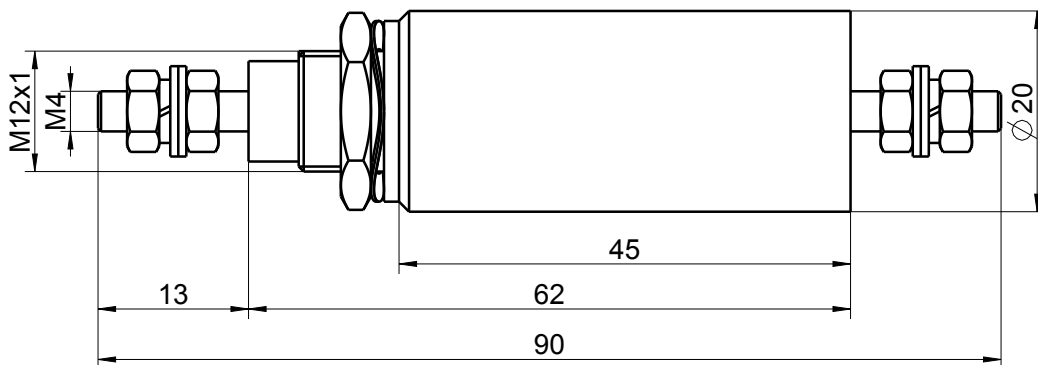
Characteristics and ordering codes

I_R	C_R	Terminal	Dimensions Φdxl(mm)	Ordering code
A	μF			
$V_R=250V AC, V_R=600V DC, V_{test}=2700V DC$				
32	2×0.001	M4	20×90	LA250V32A1116D
32	2×0.033	M4	20×90	LA250V32A1117D
32	2×0.1	M4	20×90	LA250V32A1118D

Insertion loss(dB); typical values at 50Ω

C_R (μF)	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz
2×0.01	—	1	8	55	> 80	> 80
2×0.033	—	3	11	76	> 90	> 90
2×0.1	—	10	30	93	> 100	> 100

Dimensional drawing



General tolerances according to ISO 2768-cl
Dimensions in mm

Terminal	Tightening torque
M4	1.2±0.1 Nm

Screw cap fixing	Tightening torque
M12×1	5.1±0.2Nm

Feedthrough filters Ø30mm

Technical data and measuring conditions

Rated voltage V_R	250V AC (50/60Hz) /500V DC、600V DC
Rated current I_R	25A、75A
Capacitance tolerance	±20 %
Climatic category	40/085/21 (40°C/+85°C/21 days damp heat test)
Screw cap fixing	M20×1

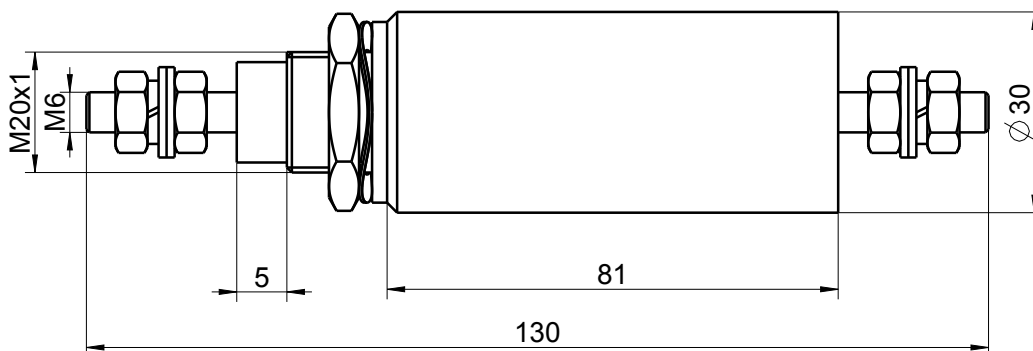
Characteristics and ordering codes

I_R	C_R	V_R	V_{test}	Terminal	Ordering code
A	μF	V DC	V DC		
$V_R=250V$ AC, Dimensions=30×130					
25	2×0.1	600	3000	M6	LA250V25A1111D
25	2×0.47	600	2000	M6	LA250V25A1112D
25	2×1.0	500	1700	M6	LA250V25A1113D
75	2×0.1	600	3000	M6	LA250V75A1111D
75	2×0.47	600	2000	M6	LA250V75A1112D
75	2×1.0	500	1700	M6	LA250V75A1113D

Insertion loss(dB); typical values at 50Ω

C_R (μF)	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz
2×0.1	—	10	20	90	> 100	> 100
2×0.47	5	22	55	> 100	> 100	> 100
2×1	10	28	70	> 100	> 100	> 100

Dimensional drawing



General tolerances according to ISO 2768-cL

Dimensions in mm

Terminal	Tightening torque
M6	5.1±0.3 Nm

Screw cap fixing	Tightening torque
M20×1	10±1 Nm

Feedthrough filters Ø55mm

Technical data and measuring conditions

Rated voltage V_R	250V AC (50/60Hz) /350V DC、600V DC
Rated current I_R	63A~500A
Capacitance tolerance	±20 %
Climatic category	40/085/21 (40°C/+85°C/21 days damp heat test)
Screw cap fixing	M32×1.5

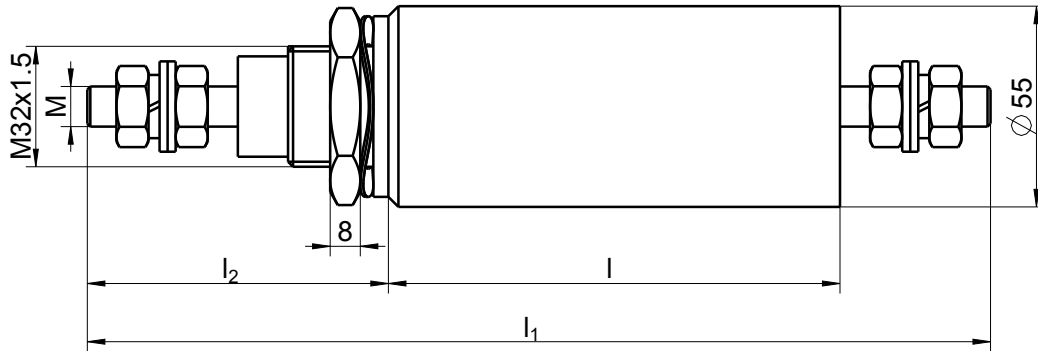
Characteristics and ordering codes

C_R μF	V_R V DC	V_{test} V DC	Terminal	Dimensions (mm)			Ordering code
				L±1	L ₁ ±1	L ₂ ±3	
$V_R=250V$ AC, $I_R=63A$							
2×0.5	600	3000	M6	100	166	45	LA250V63A1111D
2×1.0	600	2500	M6	100	166	45	LA250V63A1112D
2×2.0	600	2500	M6	100	166	45	LA250V63A1113D
2×4.7	350	1700	M6	100	166	45	LA250V63A1114D
$V_R=250V$ AC, $I_R=100A$							
2×0.5	600	3000	M8	100	180	52	LA250V100A1111D
2×1.0	600	2500	M8	100	180	52	LA250V100A1112D
2×2.0	600	2500	M8	100	180	52	LA250V100A1113D
2×4.7	350	1700	M8	100	180	52	LA250V100A1114D
$V_R=250V$ AC, $I_R=200A$							
2×0.5	600	3000	M10	100	185	55	LA250V200A1111D
2×1.0	600	2500	M10	100	185	55	LA250V200A1112D
2×2.0	600	2500	M10	100	185	55	LA250V200A1113D
2×4.7	350	1700	M10	100	185	55	LA250V200A1114D
$V_R=250V$ AC, $I_R=300A$							
2×0.5	600	3000	M12	100	195	60	LA250V300A1111D
2×1.0	600	2500	M12	100	195	60	LA250V300A1112D
2×2.0	600	2500	M12	100	195	60	LA250V300A1113D
2×4.7	350	1700	M12	100	195	60	LA250V300A1114D
$V_R=250V$ AC, $I_R=400A$							
2×0.5	600	3000	M16	130	245	72	LA250V400A1111D
2×1.0	600	2500	M16	130	245	72	LA250V400A1112D
2×2.0	600	2500	M16	130	245	72	LA250V400A1113D
2×4.7	350	1700	M16	130	245	72	LA250V400A1114D
$V_R=250V$ AC, $I_R=500A$							
2×0.5	600	3000	M18	130	250	75	LA250V500A1111D
2×1.0	600	2500	M18	130	250	75	LA250V500A1112D
2×2.0	600	2500	M18	130	250	75	LA250V500A1113D
2×4.7	350	1700	M18	130	250	75	LA250V500A1114D

Insertion loss(dB); typical values at 50Ω

C _R (μF)	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz
2×0.5	5	23	35	> 100	> 100	> 100
2×1	11	30	50	> 100	> 100	> 100
2×2	17	36	66	> 100	> 100	> 100
2×4.7	23	43	82	> 100	> 100	> 100

Dimensional drawing



General tolerances according to ISO 2768-cl
Dimensions in mm

Terminal	Tightening torque
M6	3±0.5Nm
M8	5±0.5Nm
M10	8±2Nm
M12	12±2Nm
M16	28±2Nm
M18	35±2Nm

Screw cap fixing	Tightening torque
M32×1.5	24±2.5Nm