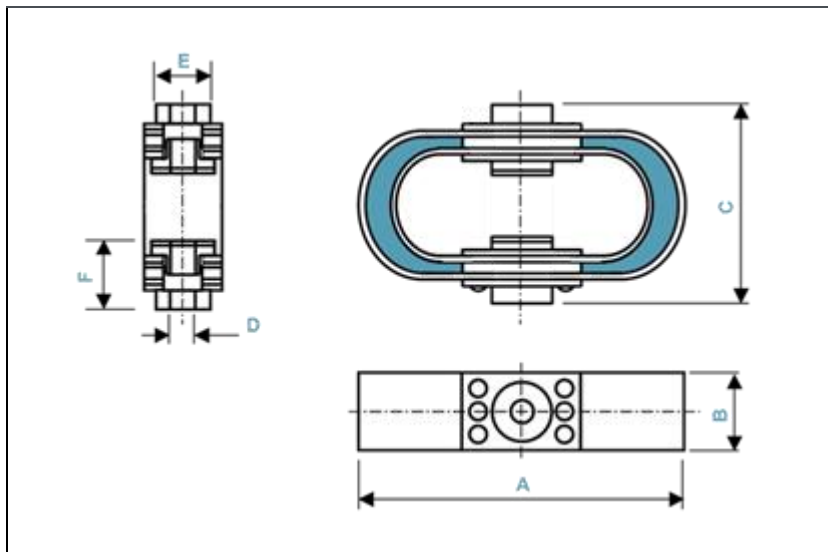


LEAF SPRING ELASTOMER ISOLATORS

DEFINITION
series LSX-xxxF



- All metal multidirectional anti-vibration/shock mounts
- Displacement under shock up to 60mm along vertical direction and 40mm along radial
- Transmissibility: $2 < Q < 6$
- Transmitted acceleration limited to 5g along longitudinal direction and to 15g along vertical and transversal
- Temperature range: $-20^{\circ}\text{C} + 40^{\circ}\text{C}$

Dimensions are in mm. For reference only.

SERIE
Materials and finishes (meets RoHs requirements)
LSX-xxxF
Leaf and washer: Stainless steel
Compound: Epoxy resin
Bush: Nylon
Coating: Neoprene Paint

LOAD AND DIMENSION											
type	Static load (kg)			A	B	C	D	E	F	mass (kg)	NATO stock number
	min	nom	max								
-10F	9	10	18	203	51	114	9 (M8)	32	22	0,68	5340-99-923-5717
-20F	18	20	35	203	51	114	9 (M8)	32	23	0,80	5340-99-923-5718
-45F	35	45	55	216	51	133	13 (M12)	32	23,5	1,02	5340-99-923-5719
-70F	55	70	90	216	51	133	13 (M12)	32	25	1,13	5340-99-923-5720
-110F	90	110	135	216	51	133	13 (M12)	32	26	1,25	5340-99-923-5721
-180F	135	180	250	297	102	190	21 (M20)	64	35	5,90	5340-99-520-8429
-320F	250	320	380	297	102	190	21 (M20)	64	41	6,57	5340-99-520-8428
-450F	380	450	550	297	102	190	21 (M20)	64	43	7,25	5340-99-520-8427
-450SF	380	450	550	365	50	210	21 (M20)	32	32	7,25	5340-99-520-6107

EXAMPLE
LSX-45F

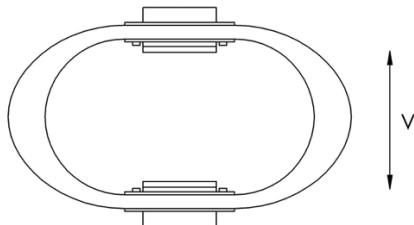
L	S	X	-	4	5	F
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PREFIX:
'leaf spring'
mount from the
LSX series

MODEL: -45F
nominal static load: 45kg
height: 133mm
length: 216mm
width: 51mm
mass: 1,02kg



PERFORMANCE DATA
series LSX-xxxF



VERTICAL											
LSX Series	Model	-10F	-20F	-45F	-70F	-110F	-180F	-320F	-450F	-450SF	
1. Natural Frequency	fc Hz	6,5	6,5	7,5	6,5	7,0	9,5	8,0	7,5		
	fy Hz	8,5	8,5	8,5	8,5	8,5	13,0	9,5	9,5		
3. Static Deflection	d1 mm	6,2	6,2	8,6	8,2	7,7	4,3	5,4	4,3	7,7	
	d2 mm	8,6	8,6	11,6	11,2	10,5	5,9	7,4	5,6	10,3	
Static Stiffness	ks N.mm ⁻¹	13	26	44	70	120	350	500	875		
Support											
Stiffness	k N.mm ⁻¹	200	450	900	1300	2000	3500	6000	8500	8500	
Strength	F N	150	300	675	1050	1650	2700	4800	6750	6750	

HORIZONTAL ACROSS

LSX Series	Model	-10F	-20F	-45F	-70F	-110	-180F	-320F	-450F	-450SF
1. Natural Frequency	fc Hz	4,5	4,5	5,0	4,75	5,0	4,75	5,25	4,75	
	fy Hz	6,25	6,25	6,25	6,25	6,25	6,5	6,0	6,0	
Static Stiffness	ks N.mm ⁻¹	17	35	58	91	149	665	788	1400	
Support										
Stiffness	k N.mm ⁻¹	200	450	900	1300	2000	3500	6000	8500	8500
Strength	F N	150	300	675	1050	1650	2700	4800	6750	6750

HORIZONTAL ROLL

LSX Series	Model	-10F	-20F	-45F	-70F	-110F	-180F	-320F	-450F	-450SF
1. Natural Frequency	fc Hz	3,5	3,5	4,25	4,0	4,25	4,0	4,25	4,0	
	fy Hz	5,0	5,0	5,0	5,0	5,0	5,5	5,0	5,0	
Static Stiffness	ks N.mm ⁻¹	7	14	24	39	61	175	219	385	
Support										
Stiffness	k N.mm ⁻¹	200	450	900	1300	2000	3500	6000	8500	8500
Strength	F N	150	300	675	1050	1650	2700	4800	6750	6750

SPECIFICATIONS APPLICATIONS

Fuel tanks, engines, seats, marine craft installations, ammunitions, generator sets, compressors, pumps, fans, air conditioning units, electric motors, electronic control equipment, laboratory equipment...

1. Max Static load (F) with corresponding deflection (d)
 2. Max Shock load (F) with corresponding deflection (d)
 3. Uncoupled resonant frequency (f) under max static loading (1.) and max peak to peak sinusoidal vibration input (2a)
- * **IMPORTANT:** performance characteristics are given here for reference only. They can be increased under specific conditions. **Contact us.**