

CHO-SEAL® 6308

CHO-SEAL® 6308 Conductive Elastomer EMI Gasket Material

DESCRIPTION

CHO-SEAL® 6308 is an extrudable, conductive elastomer EMI gasket material. Comprised of nickel-plated graphite filled silicone, the material provides an elastomer material for thin wall, hollow extrusions, down to 0.012" (0.30 mm) wall thickness. This material allows designers to address mechanical design situations which demand small cross-section gaskets with unique compression/deflection properties. Developed as a complementary product to Chomerics CHO-SEAL S6305, this material offers equivalent high performance EMI shielding and corrosion resistance.

TABLE 1 - QUALITY CONFORMANCE TESTS

Property	Method	Specifications
Conductive Filler		Nickel-plated graphite
Elastomer Binder		Silicone
Volume Resistivity (max.)	CEPS-0002	0.10 ohm-cm
Hardness	ASTM D2240	55 – 75 Shore A
Tensile Strength (min.)	ASTM D412	200 psi (1379 kPa)
Tear Strength (min.)	ASTM D624	40 ppi (7.14 kg/cm)
Elongation (typical)	ASTM D412	90%
Specific Gravity	ASTM D792	1.75 – 2.25

TABLE 2 - QUALIFICATION TESTS

Property	Method	Specifications
Compression Set (max.)	ASTM D395 Method B 70 hrs. @ 100°C	30%
Low Temperature Flex TR 10 (min.) @	ASTM 1329	-60°C
Maximum Continuous Use Temperature		150°C
Volume Resistivity after Heat Aging (max.)	MIL-DTL-83528 48 hrs. @ 150°C	0.25 ohm-cm
Shielding Effectiveness (min.)	CHO-TM-TP08	
100 MHz		100 dB
500 MHz		100 dB
2 GHz		100 dB
10 GHz		100 dB
Corrosion Resistance (typical Al coupon weight loss)	CHO-TM-100	35 milligrams

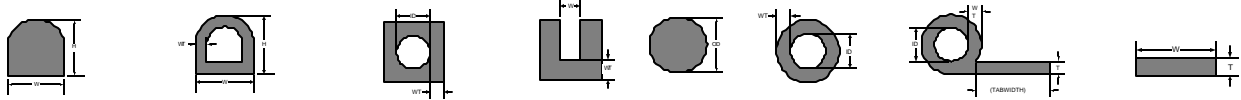
Part Numbering System

WW - XX – XXXX - YYYY

10	04	XXXX – assigned by Business Unit	6308
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EXT-ENG002 Rev D EXTRUSION PROFILE MINIMUM DIMENSIONAL GUIDELINES

Minimum dimensions suggested for manufacturing stability



MATERIAL	SOLID D		HOLLOW D			HOLLOW RECT.		CHANNEL		SOLID O	HOLLOW O		HOLLOW P			RECTANGULAR	
	H	W	WT	H	W	ID	WT	WT	W	OD	WT	ID	WT	T	ID	W (max)*	T
S6305 (mm)	0.89	0.89	0.64	3.30	3.30	0.51	0.64	0.64	0.51	0.89	0.64	0.51	0.64	0.76	1.14	2.54	0.79
S6305 (in.)	0.035	0.035	0.025	0.130	0.130	0.020	0.025	0.025	0.020	0.035	0.025	0.020	0.025	0.030	0.045	1.000	0.031
6308 (mm)	0.81	0.81	0.36	2.74	2.74	0.51	0.38	0.36	0.51	0.76	0.36	0.51	N/A	N/A	N/A	12.70	0.79
6308** (in.)	0.032	0.032	0.014	0.108	0.108	0.020	0.015	0.014	0.020	0.030	0.014	0.020	N/A	N/A	N/A	0.500	0.031

Consult Chomerics Applications Engineering Department concerning material compatibility for smaller dimensions and custom extrusions.

* Width of rectangular strips may exceed 1.0" (2.54 cm), but minimum allowed thickness will increase. Please consult with a Chomerics Application Engineer.

** Maximum dimensional restrictions apply. Consult Chomerics Applications Engineering Department.

⚠ WARNING – USER RESPONSIBILITY

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