

TECHSIL CONDUCTIVE ELASTOMERS



**LEADER
TECH** 
a HEICO company

The Leading Edge in EMI Shielding Technology

EMI Shielding Gaskets for Electronic Enclosures

Shielding gaskets are, very simply, connectors of two opposing metallic planes which make them appear as one continuous surface, by connecting across the opening. Depending on the frequencies involved, the openings must be reduced as closely as possible to a continuous seal. Leader Tech's TechSIL Conductive Elastomers are made from several different polymers and are mixed with six different types of fillers. These blended materials will allow you to use the same gasket as an environmental seal and for superior EMI shielding. Leader Tech's TechSIL products have superior shielding properties and ensure a long performance life. We offer several different manufacturing methods that will also insure that the most cost effective method is utilized to produce your gaskets.

Benefits of Conductive Elastomer Shielding Gaskets

- Excellent Shielding Effectiveness
- Excellent as an EMI shield and environmental gasket which allows for better use of space
- Many different profiles and shapes available to meet your specific requirements
- Low Compression forces achievable with hollow gaskets
- Low cost materials and profiles available
- Available with many different mounting methods
- Leader Tech approved on all 12 MIL-DTL-83528 materials (**over 2,000 part numbers available**)
- Made in U.S.A. which allows for short lead-times ,prototyping, and ITAR compliance
- Many different materials available to insure galvanic compatibility
- Military and Commercial materials available to meet your specific needs



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ISO 9001: 2015
CERTIFIED



MATERIAL SPECIFICATIONS

LTE Material Number		LTE-10	LTE-15	LTE-45	LTE-20	LTE-65	LTE-50	LTE-25	LTE-55	LTE-76
Elastomer Type		SIL	SIL	SIL	SIL	SIL	SIL	SIL	SIL	SIL
Filler Material		Ag/Cu	Ag/Cu	Ag/Cu	Ag/Al	Ag/Ni	Ag/G	Ag	Ag	Ag
MIL-DTL-83528 Material Type:		A	G	K	B	L	M	H	E	-
Electrical Properties	Test Method									
Volume Resistivity (Ohm-cm) (Max)	MIL-DTL-83528	.004	.007	.005	.008	.005	.006	.005	.002	.010
Shielding Effectiveness 20 MHz-10GHz – (dB Min)	MIL-DTL-83528	110	110	110	100	100	100	110	110	52
Physical Properties										
Specific Gravity (+/-13%)	ASTM D792	3.5	4.75±.75	3.5	2.0	4.0	1.9	4.0	3.5	1.7
Hardness - Shore A (+/-7)	ASTM D2240	65	80	85	65	75	65	80	65	45
Tensile Strength – PSI (Min)	ASTM D412	200	600	400	200	200	200	400	300	150
Elongation % (Min/Max)	ASTM D412	100/300	20-N/A	100/300	100/300	100/300	100/300	90/290	200/500	50/250
Tear Strength – PPI (Min)	ASTM D624 (DIE C)	25	70	40	30	30	30	60	50	20
Compression Set % (Max)	ASTM D395	32	N/A	35	32	32	30	60	45	35
Upper Operating Temp (°C)	-	125	125	125	160	125	160	160	160	160
Lower Operating Temp (°C)	ASTM D1329	-55	-45	-45	-55	-55	-55	-55	-55	-55
Electrical Stability										
After Heat Aging, Ω cm, max		.010	.010	.010	.010	.010	.015	.008	.010	.015
After Break, Ω cm, max		.008	N/A	.010	.015	.010	.009	.006	.010	.020
During vibration, Ω cm, max		.006	.010	.010	.012	.010	.009	.006	.010	.132
After vibration, Ω cm, max		.004	.007	.005	.008	.005	.006	.005	.002	.031
After Exposure to EMP, Ω cm, max		.010	.010	.010	.010	.010	.015	.008	.010	.184
Compression / Deflection, %, min		3.5	2.5	2.5	3.5	3.5	3.5	2.5	2.5	8.0
Fluid Immersion - Survive or Non-Survive (N/S)		N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S

ELASTOMER TYPE

Silicone = SIL **Fluorosilicone = FSIL** **Ethylene Propylene Diene Monomer = EPDM**

Silver = Ag **Silver Plated Copper =**



MATERIAL SPECIFICATIONS

LTE Material Number		LTE-60	LTE-60-40D	LTE-30	LTE-40	LTE-40-45D	LTE-35	LTE-90	LTE-70	LTE-85
Elastomer Type		SIL	SIL	FSIL	FSIL	FSIL	FSIL	FSIL	EPDM	EPDM
Filler Material		Ni/C	Ni/C	Ag/Cu	Ag/Al	Ag/Al	Ag	Ni/C	Ag/Al	Ni/C
MIL-DTL-83528 Material Type:		-	-	C	D	-	F	-	-	-
Electrical Properties	Test Method									
Volume Resistivity (Ohm-cm) (Max)	MIL-DTL-83528	.100	.100	.010	.012	.015	.002	.100	.010	.100
Shielding Effectiveness 20 MHz-10GHz – (dB Min)	MIL-DTL-83528	100	100	110	90	90	110	100	90	75
Physical Properties										
Specific Gravity (+/-13%)	ASTM D792	1.9	1.9	4.0	2.0	1.9	4.0	2.2	2.2	2.2
Hardness - Shore A (+/-7)	ASTM D2240	55*	40	75	70	45	75	70	80	80
Tensile Strength – PSI (Min)	ASTM D412	150	125	180	180	100	250	150	200	200
Elongation % (Min/Max)	ASTM D412	100/300	100/300	100/300	60/260	60/260	100/300	60/250	70/260	70/260
Tear Strength – PPI (Min)	ASTM D624 (DIE C)	30	20	35	35	20	40	40	60	60
Compression Set % (Max)	ASTM D395	25	40	35	30	35	60	25	50	40
Upper Operating Temp (°C)	-	160	160	125	160	160	160	160	160	125
Lower Operating Temp (°C)	ASTM D1329	-55	-55	-55	-55	-55	-65	-55	-40	-40
Electrical Stability										
After Heat Aging, Ω cm, max		.200	.150	.015	.015	.015	.010	.200	.200	.250
After Break, Ω cm, max		.100	.250	.015	.015	.025	.010	.100	.200	.250
During vibration, Ω cm, max		.100	.150	.015	.015	.015	.010	.100	.015	.150
After vibration, Ω cm, max		.100	.100	.010	.012	.012	.002	.100	.010	.100
After Exposure to EMP, Ω cm, max		.100	.150	.015	.015	.015	.010	.100	.015	.100
Compression / Deflection, %, min		8.0	3.0	3.5	3.5	3.5	3.5	5.0	3.0	3.0
Fluid Immersion - Survive or Non-Survive (N/S)		N/S	N/S	Survive	Survive	Survive	Survive	Survive	N/S	N/S

*Extruded materials will be Shore A 70 (+/-7)

FILLER MATERIAL

Ag/Cu	Silver Plated Aluminum = Ag/Al	Silver Plated Nickel = Ag/Ni	Silver Plated Glass = Ag/G	Nickel Coated Graphite = Ni/C
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Galvanic Compatibility Chart

Galvanic Compatibility - A Guide to Selecting Conductive Elastomers

Galvanic compatibility is a significant consideration when specifying a conductive elastomer as an EMI shielding or environmental seal gasket. A properly selected gasket will provide excellent shielding effectiveness and environmental protection while exhibiting minimal galvanic corrosion.

Galvanic corrosion is an electrochemical reaction that occurs when two dissimilar materials are in direct contact in a favorable environment (temperature, humidity, salinity, water). The galvanic series offers a general guideline for selecting compatible metallic couples. However, electrically conductive elastomers are composite materials that react differently than metals due to many factors including the composition of the conductive fillers, the permeability of the elastomer, and the presence of unique corrosion inhibitors.

How to Use the Chart

The chart below provides a guide for selecting the least corrosive galvanic couple between your metal chassis and the conductive elastomer. Simply find your chassis material in the first column and follow the line to the right to determine what conductive elastomer is best for your application.

Chassis Material	LTE-10 Silicone Ag/Cu A	LTE-20 Silicone Ag/Al B	LTE-30 Fluorosilicone Ag/Cu C	LTE-40 Fluorosilicone Ag/Al D	LTE-50 Silicone Ag/G M	LTE-60 Silicone Ni/C ---
Chromated Al	Excessive Corrosion	Moderate to Excessive Corrosion	Excessive Corrosion	Minimal Corrosion	Excessive Corrosion	Moderate to Excessive Corrosion
Tin Plated Steel	Moderate to Excessive Corrosion	Minimal Corrosion	Moderate to Excessive Corrosion	Minimal Corrosion	Moderate Corrosion	Moderate to Excessive Corrosion
Zinc Plated Steel	Moderate to Excessive Corrosion	Minimal Corrosion	Moderate to Excessive Corrosion	Minimal Corrosion	Moderate Corrosion	Moderate Corrosion
Stainless Steel	Minimal Corrosion	Minimal Corrosion	Minimal Corrosion	Minimal Corrosion	Minimal Corrosion	Minimal Corrosion

Silver = Ag, Copper = CU, Aluminum = Al, Nickel = Ni, Glass = G, Nickel Coated Graphite = Ni/C

Excessive Corrosion Moderate to Excessive Corrosion Moderate Corrosion Minimal Corrosion

Other TechSIL Formulations

Additional material formulations as well as unique profiles, molded shapes and die-cuts are also available. Please contact our engineering department or visit www.leadertechinc.com for a complete listing.

Inspection Criteria for All Conductive Elastomer Products

Leader Tech Inc. manufactures eleven material types of MIL-DTL-83528E that have been submitted to and approved by the Defense Logistics Agency. The materials were tested to MIL-DTL-83528E 4.2 Qualification Inspection requirements as follow:

- | | | |
|-----------------------------------|---|------------------------|
| ■ Visual Inspection | ■ Compression Set | ■ Low temperature Flex |
| ■ Dimensioning | ■ Tear Strength | ■ Life Testing |
| ■ Specific Gravity | ■ Volume Resistivity | ■ EMP Survivability |
| ■ Hardness | ■ Shielding Effectiveness | ■ Fluid Immersion |
| ■ Compression/Deflection | ■ Electrical Stability During Vibration | |
| ■ Tensile Strength and Elongation | ■ Electrical Stability After Break | |



All material batches are tested to the In-Process Inspection Requirements of MIL-DTL-83528E 4.3 or applicable commercial specifications for commercial grade products. The following attributes are tested for each and every batch:

- Specific Gravity
- Volume Resistivity
- Hardness
- Tensile Strength and Elongation
- Tear Strength
- Electrical Stability After Break



Things to Consider When Selecting an EMI or Environmental Gasket

- Operating Environment
- Operating Frequency
- Materials Compatibility
- Mounting Method
- Space and Weight Issues

Types of TechSIL Conductive Elastomers

- Flat Gaskets, Sheets or Die Cut Parts
- Molded Shapes, O-Rings or Special Shapes or Patterns
- Extruded Profiles
- Form-In-Place Gaskets

Operating, Storage and Assembly Environment Considerations

When selecting a Leader Tech TechSIL Conductive Elastomer the following Environmental issues must be considered when selecting a gasket for your application (see Table 1).

- Temperature
- Shelf Life
- Chemical Compatibility
- Galvanic Compatibility

TABLE 1

LTE-10	A	Silver-plated, copper-filled silicone capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +125°C.
LTE-15	G	Silver-plated, copper-filled silicone, expanded copper foil reinforced, capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -45°C to +125°C.
LTE-20	B	Silver-plated, aluminum-filled silicone capable of 100 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +160°C.
LTE-25	H	A high durometer, pure silver-filled silicone capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +160°C.
LTE-30	C	Silver-plated, copper-filled fluorosilicone capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +125°C and resistant to solvents and jet fuels.
LTE-35	F	Pure silver-filled fluorosilicone capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -65°C to +160°C and resistant to solvents and jet fuels.
LTE-40	D	Silver-plated, aluminum-filled fluorosilicone capable of 90 dB of plane wave shielding effectiveness at 10 GHz, with, a continuous use temperature range of -55°C to +160°C, and resistant to solvents and jet fuels.
LTE-45	K	A high durometer silver-plated, copper-filled silicone capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous temperature range of -45°C to +125°C.
LTE-50	M	Silver plated glass-filled silicone capable of 100 dB of plane wave shielding effectiveness at 10 GHz with a continuous temperature range of -55°C to +160°C.
LTE-55	E	A medium durometer, pure silver-filled silicone capable of 110 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +160°C.
LTE-60	N/A	Nickel Graphite-filled silicone capable of 100 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +160°C.
LTE-65	L	Silver-plated, nickel-filled silicone capable of 100 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +125°C.
LTE-70	N/A	Silver-plated, aluminum-filled EPDM capable of 90 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -40°C to +160°C. Resistant to NBC washdown materials
LTE-76	N/A	A low durometer, pure silver-filled silicone, capable of 52 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +160°C.
LTE-85	N/A	Nickel Graphite-filled EPDM capable of 75 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -40°C to +125°C. Resistant to NBC wash-down materials
LTE-90	N/A	Nickel Graphite-filled fluorosilicone capable of 100 dB of plane wave shielding effectiveness at 10 GHz with a continuous use temperature range of -55°C to +160°C and resistant to solvents and jet fuels.

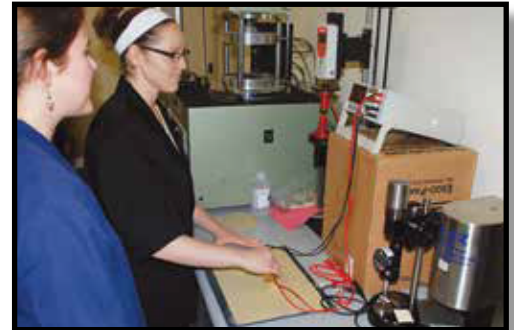
Polymers

TechSIL Conductive Elastomers are used in most cases to achieve the correct shielding effectiveness as well as to protect the device from the environment by also offering an environmental seal. TechSIL Conductive Elastomers are made from several different types of polymers and are blended with several different types of conductive fillers. When selecting the correct TechSIL Conductive Elastomer for your application there are several things that must be considered prior to selecting the appropriate shape or type of gasket. The different polymers that are currently offered by Leader Tech Inc. are Silicone, Fluorosilicone and EPDM (Ethylene Propylene Diene Monomer). Each one will work very well in specific environments but some will work better than others in a wide range of environments. The types of chemicals that the gasket will be exposed to will determine the type of polymer that should be used (see table #2).

TABLE 2

CHEMICAL COMPATIBILITY OF BASE POLYMER			
Fluid	Silicone	Fluorosilicone	EPDM
ASTM 1 Oil	Good	Good	Not Recommended
Compression Set	Good	Good	Good
Concentrated Acids	Not Recommended	Not Recommended	Fair
Concentrated Bases	Not Recommended	Not Recommended	Good
Dilute Acids	Fair	Good	Good
Dilute Bases	Fair	Good	Preferred
DS-2 Decontamination Fluid	Poor	Poor	Good
Esters/Ketones	Not Recommended	Not Recommended	Good
High Temperature	Good	Good	Good
Low Temperature	Good	Good	Good
Hydraulic Fluids (Organic)	Fair	Good	Not Recommended
Hydraulic Fluids (Phosphoric Acid Ester)	Fair	Fair	Good
Hydrocarbon Fuels	Not Recommended	Good	Not Recommended
Impermeability to Gases	Poor	Fair	Good
Ozone and Ultraviolet	Good	Good	Good
Resistance to Radiation	Good	Poor	Good
STB Decontamination Fluid	Good	Good	Good

■ Not Recommended
 ■ Poor
 ■ Fair
 ■ Good
 ■ Preferred



Leader Tech's standard TechSIL Conductive Elastomer gaskets are made using three polymers. These polymers will have the following shelf life once they are blended with the appropriate filler (see Table 3).

BASE POLYMER	SHELF LIFE (YEARS)
EPDM (Ethylene Propylene Diene Monomer)	5 to 10 Years
Fluorosilicone	Up to 20 Years
Silicone	Up to 20 Years

TABLE 3

Fillers

Leader Tech Inc. is currently offering six different fillers that can be mixed with the polymers. These fillers are Pure Silver, Silver Plated Copper, Silver Plated Aluminum, Silver Plated Nickel, Silver Plated Glass, and Nickel Graphite particles. When these particles are combined with the polymers they make an excellent gasket that will offer EMI shielding and protect your device against the environment. In order to select the correct filler you must first determine what finish will be on your device. Galvanically some materials will perform much better when mounted against certain types of materials. An example of a material that will work well in almost all situations is Leader Tech's TechSIL LTE-40 material. This is a Fluorosilicone polymer material that is mixed with Silver Plated Aluminum particles. LTE-40 (MIL-DTL-83528 Type D) has excellent conductivity, excellent galvanic compatibility and it works well when exposed to most chemicals and harsh environments. On the other hand, if a device is being used exclusively in an office type environment the lower cost TechSIL LTE-60 material could be used (see Tables #1 and #4).

Most Popular TechSIL Formulations	Elastomer/Filler					
Leader Tech Material Code	LTE-10	LTE-20	LTE-30	LTE-40	LTE-50	LTE-60
MIL-DTL-83528	A	B	C	D	M	---
Chassis Material	Sil Ag/Cu	Sil Ag/Al	F.Sil Ag/Cu	F-Sil Ag/Al	Sil Ag/G	Sil Ni/C
Chromated Al						
Tin Plated Steel						
Zinc Plated Steel						
Stainless Steel						

Excessive Corrosion Moderate to Excessive Moderate Corrosion Minimal Corrosion

TABLE 4

Profiles

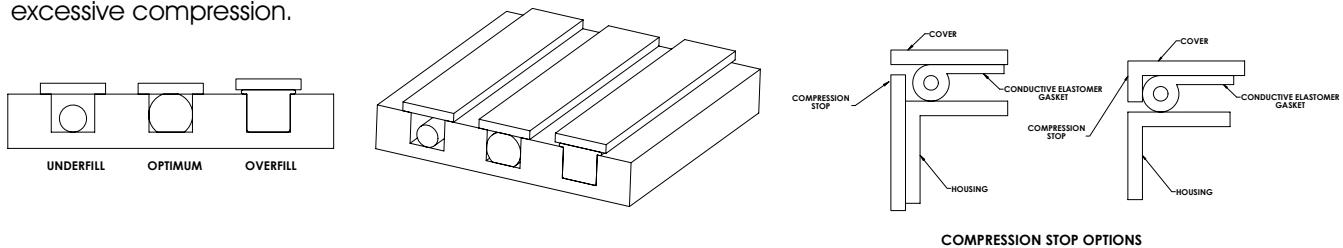
Once the material is selected it is time to decide what shape or profile will work best for your application. When using TechSIL Conductive Elastomers the amount of compression or deflection must always be considered. If a gasket is over compressed it will fracture and will no longer offer adequate shielding or environmental protection. There are four basic standard shapes for TechSIL Conductive Elastomers. The shapes are Flat, Round, "D" and "P". The Flat gasket is the only gasket that is not offered in a hollow configuration. The Round, "D" and "P" are all offered in solid and hollow configurations. Due to the make-up of these TechSIL Conductive Elastomers whenever possible it is recommended that a hollow shape be used. This will lower the compression forces required and also will allow for a wider operating range of the gasket (see table #5). The other advantage of the hollow gasket is that less material is used and in most cases the hollow gaskets are less expensive per foot than the solid gaskets.

Recommended Deflection/Compression	
Shape	Deflection/Compression
Flat Strip	5-10 Percent
Solid O	20-25 Percent
Solid D	15-20 Percent
Hollow O	20-50 Percent
Hollow D	25-50 Percent
Hollow P	25-50 Percent
Interference Fit	15-25 Percent

TABLE 5

Mounting Methods

TechSIL Conductive Elastomers can be mounted using grooves, Pressure Sensitive Adhesives, or mechanically fastening the gasket to the device. Sheets, Flat, "D" and "P" shape can have either Conductive PSA or non-Conductive PSA applied to help hold the gasket in place prior to assembly. When using non-conductive adhesives typically only 50% of the gaskets mounting surface has PSA applied to it. Round gaskets on the other hand can not have PSA applied and are mounted by using grooves that can retain the gasket and prevent excessive compression.

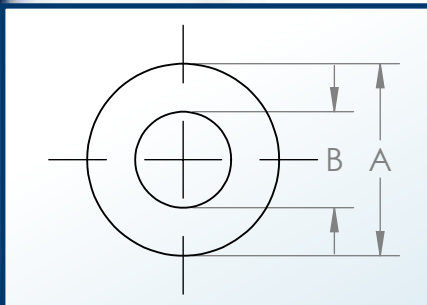


Space and Weight Considerations

When using Leader Tech's TechSIL Conductive Elastomers there is a definite advantage over using other materials if there is limited space or if weight is a concern. TechSIL gaskets can be made in very small profiles and will still give significant EMI Shielding and Environmental protection while taking up very little space. The smaller profiles also weigh much less than other types of EMI gaskets.

Cost

Leader Tech's TechSIL Conductive Elastomers come in many different blends. When choosing a compound you should always choose the appropriate compound based on the environment where it will be used. If a harsh environment is expected then the appropriate materials should be selected (see Galvanic Compatibility chart). If however the device is used in a controlled environment the lower cost Nickel Graphite materials may be an option. One of our best materials for harsh environments is the LTE-40 Fluorosilicone Silver Plated Aluminum material (MIL-DTL-83528 Type D). If needed the cost of this material is more than beneficial to insure that there are no failures when your device is used in the field. If however your device is used and stored in a controlled environment using the LTE-60 Silicone Nickel Graphite will reduce the cost of the gasket by almost 50% and will supply the same amount of EMI shielding as the LTE-40 material.



Leader Tech's TechSIL Conductive Elastomers contain over 65% of the conductive fillers needed to make them function as EMI shielding gaskets. In order to keep the cost of TechSIL gaskets as inexpensive as possible it is recommended that the smallest profile possible be used in your application. The controlling factor in the cost of the different compounds is the amount of conductive particles that have to be added. If a .125" hollow round gasket is used (5411-0001-xx, M83528/011X001) instead of a .250" hollow round gasket (5411-0003-xx, M83528/011X003) the amount of conductive material is reduced by almost 70%. This greatly affects the cost of the gasket. When using conductive elastomer gaskets using a smaller gasket can greatly help in reducing the cost of that gasket.

Sheet Material

Our Most Popular!

Also Available with Conductive Adhesive*

Thickness	10 x 10	10 x 15	12 x 12	10 x 20	20 x 20
.020	5020-1010-XX	5020-1015-XX	5020-1212-XX	5020-1020-XX	5020-2020-XX
.032	5032-1010-XX	5032-1015-XX	5032-1212-XX	5032-1020-XX	5032-2020-XX
.062	5062-1010-XX	5062-1015-XX	5062-1212-XX	5062-1020-XX	5062-2020-XX
.093	5093-1010-XX	5093-1015-XX	5093-1212-XX	5093-1020-XX	5093-2020-XX
.100	5100-1010-XX	5100-1015-XX	5100-1212-XX	5100-1020-XX	5100-2020-XX
.125	5125-1010-XX	5125-1015-XX	5125-1212-XX	5125-1020-XX	5125-2020-XX

Leader Tech's TechSIL Sheet products can be used to die-cut connector gaskets or for custom shapes. They come in many sizes and thicknesses. The most common sizes are 10" x 10", 10" x 15", 12 x 12", 10" x 20", and 20" x 20" and in multiple thicknesses from .020" to .125". Additional sizes and thicknesses are available upon request. Sheets can be made to special sizes to eliminate any waste that could occur during water-jet or die cutting. TechSIL sheets can be molded out of all sixteen compounds and special compounds are available upon request.

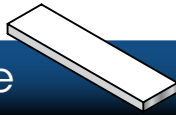
THICKNESS TOLERANCE

.020 +/- .004 (.52 +/- .10)
.032 +/- .005 (.76 +/- .13)
.062 +/- .007 (1.52 +/- .18)
.093 +/- .010 (2.29 +/- .25)
.100 +/- .010 (2.54 +/- .25)
.125 +/- .010 (3.18 +/- .25)

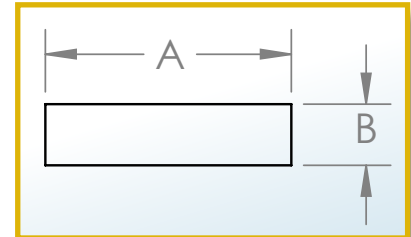
*Simply add a "I" to the end of the sheet material part number. See below.

5 0 3 2 - 1 0 1 0 - 5 0 I
 Profile Style Sheet Size Material Number with Adhesive

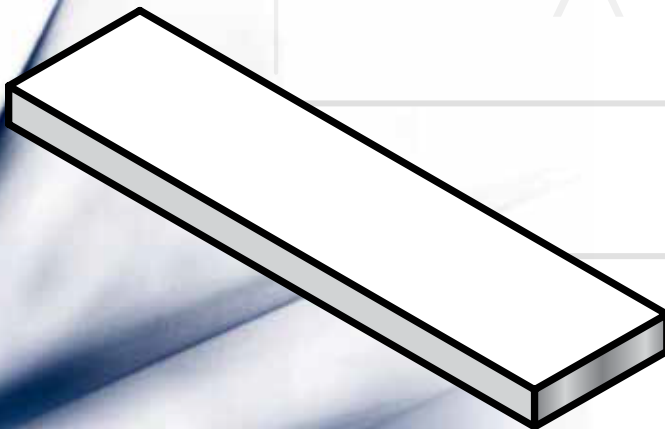
Rectangle



MIL-DTL-83528 Part Number	Leader Tech Part Number	Nominal Dimensions	
		A (width)	B (height)
M83528/009X001	5409-0001-XX	.063 1.60	.042 1.07
M83528/009X002	5409-0002-XX	.095 2.41	.062 1.57
M83528/009X003	5409-0003-XX	.120 3.05	.075 1.91
M83528/009X004	5409-0004-XX	.125 3.18	.062 1.57
M83528/009X005	5409-0005-XX	.156 3.96	.062 1.57
M83528/009X006	5409-0006-XX	.250 6.35	.062 1.57
M83528/009X007	5409-0007-XX	.500 12.70	.075 1.91
M83528/009X008	5409-0008-XX	.500 12.70	.125 3.18
M83528/009X009	5409-0009-XX	.500 12.70	.188 4.78
M83528/009X010	5409-0010-XX	.750 19.05	.062 1.57
M83528/009X011	5409-0011-XX	.880 22.35	.062 1.57
M83528/009X012	5409-0012-XX	1.000 25.40	.250 6.35
M83528/009X013	5409-0013-XX	1.180 29.97	.062 1.57
N/A	5409-0100-XX	.093 2.36	.093 2.36
N/A	5409-0101-XX	.500 12.70	.250 6.35
N/A	5409-0102-XX	.650 16.51	.032 .81
N/A	5409-0103-XX	.250 6.35	.032 .81
N/A	5409-0104-XX	.063 1.60	.032 .81



TechSIL Rectangular Extrusions come in 18 different sizes with multiple thicknesses and widths to fit your application. Conductive and non-Conductive Pressure Sensitive Adhesives can be applied to the strips for easy assembly if desired. When using a non-Conductive Adhesive only 50% of the mating surface should have PSA applied. Additional widths and thicknesses are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available.



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

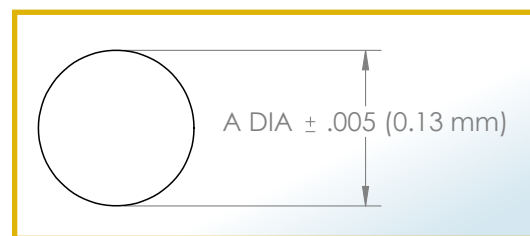
Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

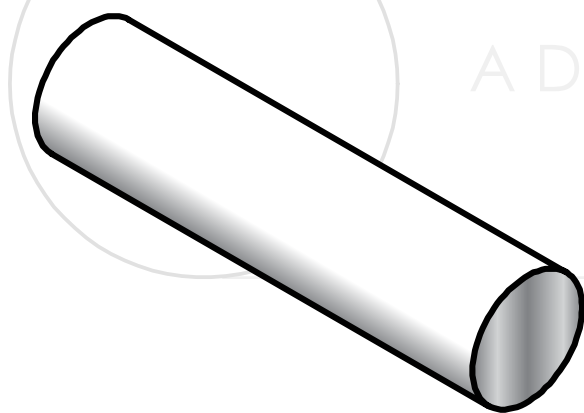
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Round

Part Number	Part Number	Dimension A ± .005	Recommended Groove Width	Recommended Groove Height
M83528/001X001	5401-0001-XX	.040 1.02	.050 1.27	.030 .76
M83528/001X002	5401-0002-XX	.053 1.35	.062 1.57	.040 1.02
M83528/001X003	5401-0003-XX	.062 1.57	.070 1.78	.047 1.19
M83528/001X004	5401-0004-XX	.070 1.78	.083 2.11	.050 1.27
M83528/001X005	5401-0005-XX	.080 2.03	.090 2.29	.060 1.52
M83528/001X006	5401-0006-XX	.093 2.36	.103 2.62	.070 1.78
M83528/001X007	5401-0007-XX	.103 2.62	.118 3.00	.074 1.88
M83528/001X008	5401-0008-XX	.119 3.02	.130 3.30	.090 2.29
M83528/001X009	5401-0009-XX	.125 3.18	.139 3.53	.093 2.36
M83528/001X010	5401-0010-XX	.139 3.53	.157 3.99	.101 2.56
M83528/001X011	5401-0011-XX	.188 4.78	.210 5.33	.141 3.58
M83528/001X012	5401-0012-XX	.216 5.49	.241 6.12	.160 4.06
M83528/001X013	5401-0013-XX	.250 6.35	.275 6.98	.187 4.75
N/A	5401-0100-XX	.157 3.99	.178 4.52	.122 3.10
N/A	5401-0101-XX	.090 2.29	.100 2.54	.070 1.78
N/A	5401-0102-XX	.200 5.08	.224 5.69	.155 3.94
N/A	5401-0103-XX	.258 6.55	.283 7.19	.200 5.08
N/A	5401-0104-XX	.059 1.50	.067 1.70	.045 1.14



TechSIL Round and Hollow Round Extrusions come in over thirty sizes to fit your application. Grooves are recommended in your device to insure that the gasket is not over compressed. Both the Round and Hollow Round profiles can be bonded into O-Rings using an RTV cold bond or a Hot Vulcanized bond. Bonded O-Rings should have an Inside Diameter greater than 2 inches. If a smaller O-Ring is required please contact our Engineering Department. The Hollow Round profile offers a much wider operating range and lower compression forces are required. Neither shape can have Pressure Sensitive Adhesive applied. Additional sizes are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available. Tape is not available.



A DIA ± .005 (0.13 mm)

Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

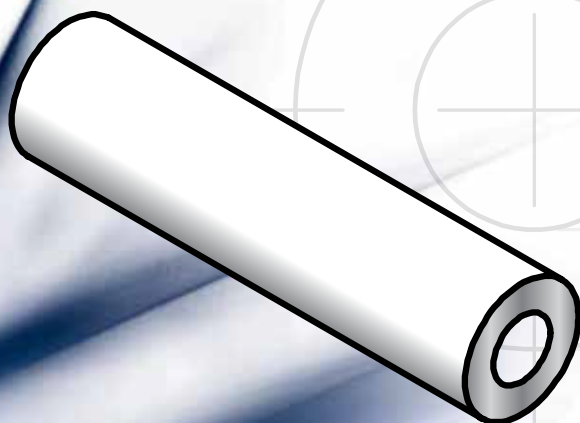
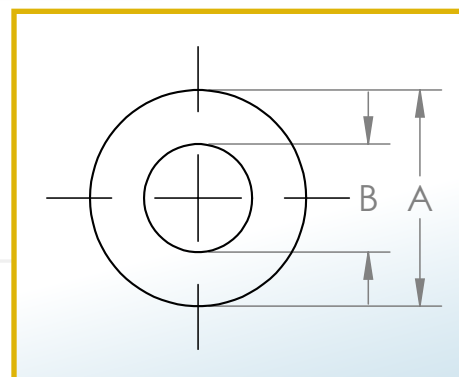
Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Hollow Round

Part Number	Part Number	A (OD)	Dimensions B (ID)	Recommended Groove Width	Recommended Groove Height
M83528/011X001	5411-0001-XX	.125 3.18	.045 1.14	.130 3.30	.088 2.23
M83528/011X002	5411-0002-XX	.156 3.96	.050 1.27	.160 4.06	.109 2.76
M83528/011X003	5411-0003-XX	.250 6.35	.125 3.18	.255 5.71	.150 3.81
M83528/011X004	5411-0004-XX	.312 7.92	.192 4.88	.317 8.05	.156 3.96
M83528/011X005	5411-0005-XX	.375 9.53	.250 6.35	.380 9.65	.177 4.49
M83528/011X006	5411-0006-XX	.125 3.18	.062 1.57	.130 3.30	.077 1.95
M83528/011X007	5411-0007-XX	.103 2.62	.040 1.02	.107 2.72	.073 1.85
M83528/011X008	5411-0008-XX	.177 4.50	.079 2.01	.182 4.62	.120 3.05
N/A	5411-0100-XX	.090 2.29	.050 1.27	.095 2.41	.063 1.60
N/A	5411-0102-XX	.094 2.39	.063 1.60	.099 2.51	.066 1.68
N/A	5411-0103-XX	.060 1.52	.020 .51	.065 1.65	.042 1.07
N/A	5411-0104-XX	.125 3.18	.079 2.01	.130 3.30	.088 2.24
N/A	5411-0105-XX	.156 3.96	.080 2.03	.161 4.09	.109 2.77
N/A	5411-0108-XX	.400 10.16	.240 6.10	.405 10.29	.189 4.80

TechSIL Round and Hollow Round Extrusions come in over thirty sizes to fit your application. Grooves are recommended in your device to insure that the gasket is not over compressed. Both the Round and Hollow Round profiles can be bonded into O-Rings using an RTV cold bond or a Hot Vulcanized bond. Bonded O-Rings should have an Inside Diameter greater than 2 inches. If a smaller O-Ring is required please contact our Engineering Department. The Hollow Round profile offers a much wider operating range and lower compression forces are required. Neither shape can have Pressure Sensitive Adhesive applied. Additional sizes are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available. Tape is not available.



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

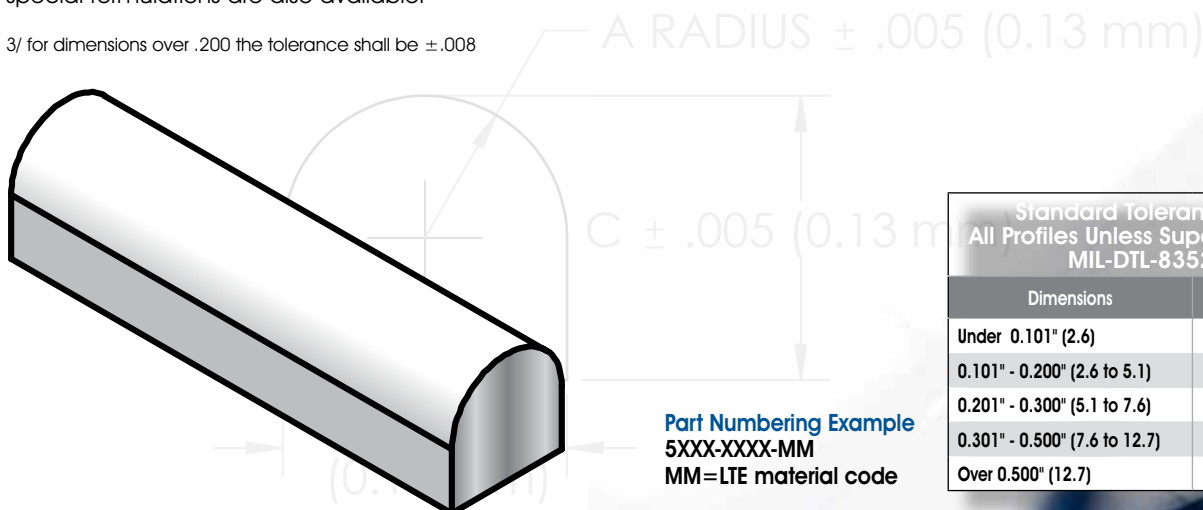
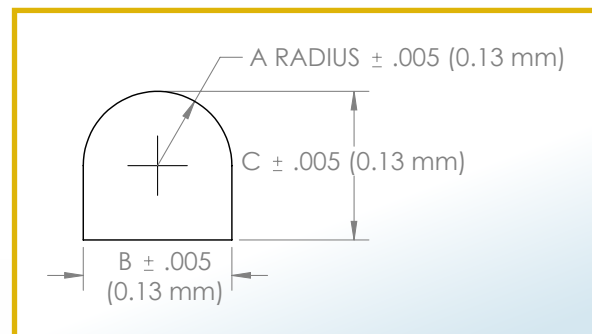
Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528	
Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Solid D

Part Number	Part Number	Dimension A ± .005	Dimension B ± .005 3/	Dimension C ± .005 3/	Recommended Groove Width	Recommended Groove Height
M83528/003X001	5403-0001-XX	.031 .78	.062 1.57	.068 1.73	.065 1.65	.051 1.29
M83528/003X002	5403-0002-XX	.047 1.19	.094 2.39	.078 1.98	.097 2.46	.059 1.50
M83528/003X003	5403-0003-XX	.039 .99	.078 1.98	.089 2.26	.080 2.03	.066 1.67
M83528/003X004	5403-0004-XX	.047 1.19	.094 2.39	.094 2.39	.097 2.46	.070 1.78
M83528/003X005	5403-0005-XX	.031 .78	.062 1.57	.100 2.54	.065 1.65	.075 1.90
M83528/003X006	5403-0006-XX	.075 1.91	.150 3.81	.110 2.79	.155 3.93	.083 2.10
M83528/003X007	5403-0007-XX	.061 1.55	.122 3.10	.135 3.43	.125 3.17	.101 2.56
M83528/003X008	5403-0008-XX	.059 1.49	.118 3.00	.156 3.96	.120 3.04	.117 2.97
M83528/003X009	5403-0009-XX	.078 1.98	.156 3.96	.156 3.96	.160 4.06	.117 2.97
M83528/003X010	5403-0010-XX	.089 2.26	.178 4.52	.175 4.45	.181 4.60	.131 3.32
M83528/003X011	5403-0011-XX	.094 2.39	.188 4.78	.188 4.78	.193 4.90	.141 3.58
M83528/003X012	5403-0012-XX	.125 3.18	.250 6.35	.250 6.35	.255 6.47	.187 4.75

TechSIL Solid and Hollow "D" Extrusions are available in nineteen different profiles. They can be used in a groove to control the compression forces or can have either Conductive or non-Conductive Pressure Sensitive Adhesive applied for easy assembly. When using a non-Conductive Adhesive only 50% of the mating surface should have PSA applied. Both the Solid and Hollow variations can be bonded into O-Rings or Picture Frame gaskets using an RTV cold bond or a Hot Vulcanized bond. The Hollow "D" profiles offers a much wider operating range and lower compression forces are required than for the Solid versions. Additional sizes are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available.

3/ for dimensions over .200 the tolerance shall be ± .008



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

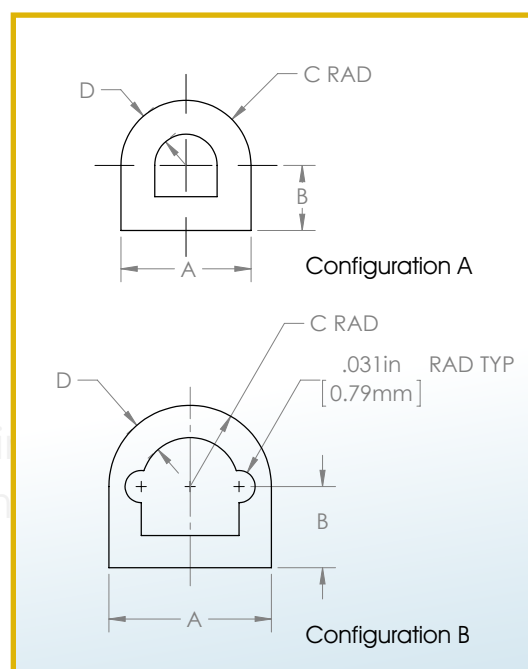
Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528	
Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Hollow D

Part Number	Part Number	Nominal Dimensions				Configuration	Recommended Groove Width	Recommended Groove Height
		A	B	C	D			
M83528/007X001	5407-0001-XX	.156 3.96	.078 1.98	.078 1.98	.045 1.14	A	.160 4.06	.093 2.36
M83528/007X002	5407-0002-XX	.187 4.75	.093 2.36	.093 2.36	.050 1.27	A	.193 4.90	.107 2.71
M83528/007X003	5407-0003-XX	.312 7.92	.156 3.96	.156 3.96	.062 1.57	A	.320 8.12	.187 4.75
M83528/007X004	5407-0004-XX	.312 7.92	.156 3.96	.156 3.96	.062 1.57	B	.320 8.12	.187 4.75
M83528/007X005	5407-0005-XX	.312 7.92	.200 5.08	.112 2.84	.062 1.57	A	.320 8.12	.177 4.49
M83528/007X006	5407-0006-XX	.487 12.37	.080 2.03	.244 6.20	.080 2.03	A	.500 12.70	.250 6.35
M83528/007X007	5407-0007-XX	.250 6.35	.125 3.18	.125 3.18	.065 1.65	A	.255 6.47	.150 3.81

TechSIL Solid and Hollow "D" Extrusions are available in nineteen different profiles. They can be used in a groove to control the compression forces or can have either Conductive or non-Conductive Pressure Sensitive Adhesive applied for easy assembly. When using a non-Conductive Adhesive only 50% of the mating surface should have PSA applied. Both the Solid and Hollow variations can be bonded into O-Rings or Picture Frame gaskets using an RTV cold bond or a Hot Vulcanized bond. The Hollow "D" profiles offers a much wider operating range and lower compression forces are required than for the Solid versions. Additional sizes are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available.

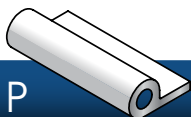


Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528	
Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

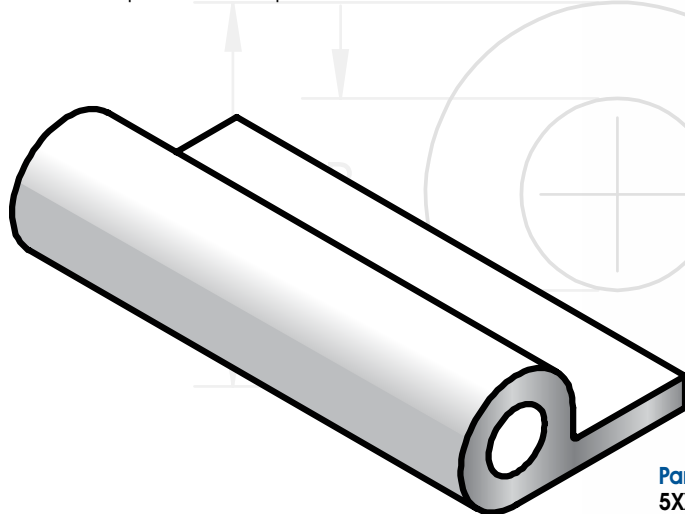
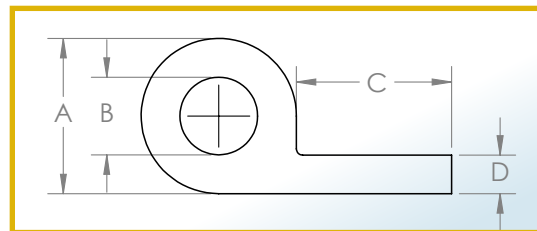
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Hollow P



		Nominal Dimensions							
Part Number	Part Number	A		B		C		D	
M83528/008X001	5408-0001-XX	.200	5.08	.080	2.03	.065	1.65	.062	1.57
M83528/008X002	5408-0002-XX	.250	6.35	.125	3.18	.250	6.35	.062	1.57
M83528/008X003	5408-0003-XX	.250	6.35	.125	3.18	.375	9.53	.062	1.57
M83528/008X004	5408-0004-XX	.250	6.35	.150	3.96	.375	9.53	.062	1.57
M83528/008X005	5408-0005-XX	.312	7.92	.187	4.75	.563	14.30	.062	1.57
M83528/008X006	5408-0006-XX	.360	9.14	.255	6.48	.420	10.67	.070	1.79
M83528/008X007	5408-0007-XX	.200	5.08	.080	2.03	.275	6.99	.062	1.57
M83528/008X008	5408-0008-XX	.250	6.35	.125	3.18	.625	15.88	.062	1.57

TechSIL Hollow "P" Extrusions are available in eight different sizes. They can be used in a groove to control the compression forces or can have either Conductive or non-Conductive Pressure Sensitive Adhesive applied for easy assembly. When using a non-Conductive Adhesive only 80% of the mating surface should have PSA applied. PSA can be applied to either side of the gasket so that it can be used in several different positions on your device. Hollow "P" extrusions can be bonded into Picture Frame gaskets using an RTV cold bond or a Hot Vulcanized bond. The Hollow "P" profiles offers a wide operating range and low compression force. Solid versions and additional sizes are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available.



Part Numbering Example
 5XXX-XXXX-MM
 MM=LTE material code

Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

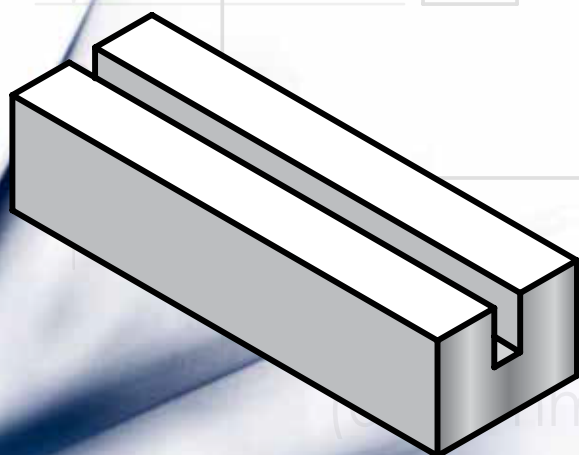
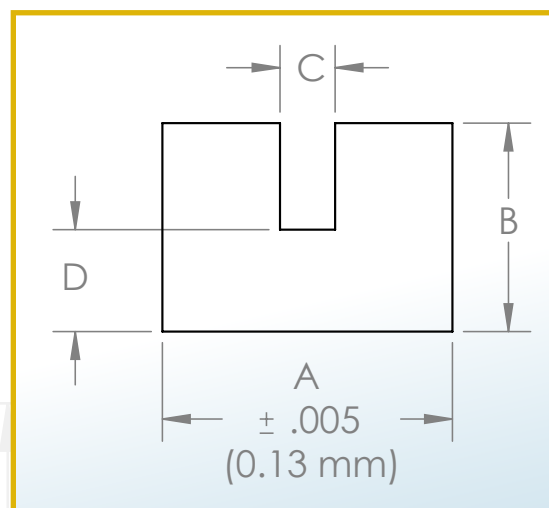
Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

U Channel

Part Number		Nominal Dimensions							
Part Number	Part Number	A		B		C		D	
M83528/010X001	5410-0001-XX	.100	2.54	.100	2.54	.034	.86	.033	.84
M83528/010X002	5410-0002-XX	.126	3.20	.110	2.79	.025	.64	.050	1.27
M83528/010X003	5410-0003-XX	.126	3.20	.225	5.72	.020	.51	.075	1.91
M83528/010X004	5410-0004-XX	.156	3.96	.156	3.96	.062	1.57	.047	1.19
M83528/010X005	5410-0005-XX	.175	4.45	.156	3.96	.047	1.19	.075	1.91
M83528/010X006	5410-0006-XX	.327	8.31	.235	5.97	.062	1.57	.115	2.92

TechSIL U Channel Extrusions come in six different sizes with multiple thicknesses and widths to fit your application. Conductive and non-Conductive Pressure Sensitive Adhesives can be applied to the strips for easy assembly if desired. When using a non-Conductive Adhesive only 50% of the mating surface should have PSA applied. Additional widths and thicknesses are available upon request. TechSIL extrusions are available in all sixteen compounds and special formulations are also available.



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

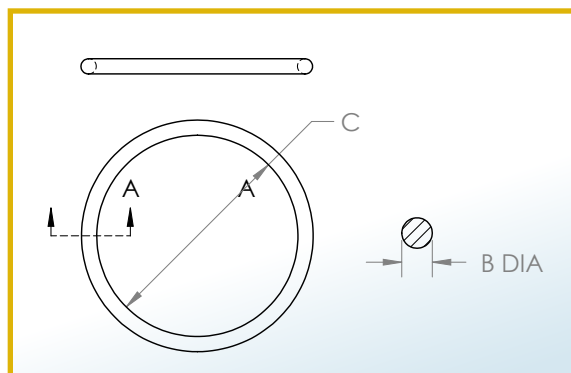
Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

O-Rings

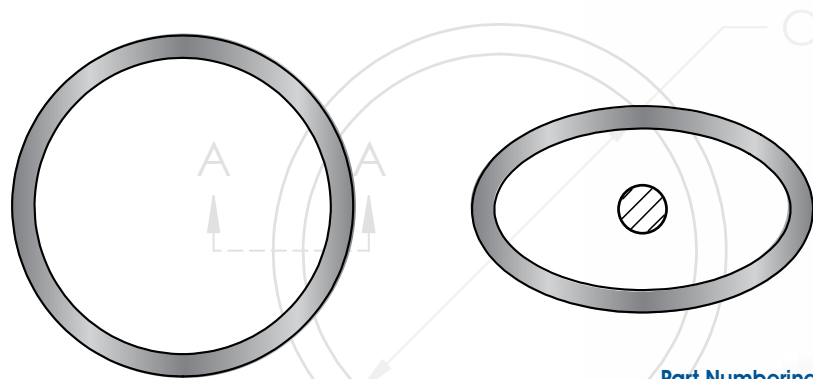
Part Number	Number	3/ Inch B	Dimension C 5/
M83528/002X007	5302-0007-XX	.070 1.78	.145 3.68
M83528/002X011	5302-0011-XX	.070 1.78	.301 7.65
M83528/002X012	5302-0012-XX	.070 1.78	.364 9.25
M83528/002X013	5302-0013-XX	.070 1.78	.426 10.82
M83528/002X014	5302-0014-XX	.070 1.78	.489 12.42
M83528/002X015	5302-0015-XX	.070 1.78	.551 13.99
M83528/002X017	5302-0017-XX	.070 1.78	.676 17.17
M83528/002X018	5302-0018-XX	.070 1.78	.739 18.77
M83528/002X019	5302-0019-XX	.070 1.78	.801 20.34
M83528/002X020	5302-0020-XX	.070 1.78	.864 21.94
M83528/002X021	5302-0021-XX	.070 1.78	.926 23.52
M83528/002X022	5302-0022-XX	.070 1.78	.989 25.12
M83528/002X024	5302-0024-XX	.070 1.78	1.114 28.30
M83528/002X026	5302-0026-XX	.070 1.78	1.239 31.47
M83528/002X028	5302-0028-XX	.070 1.78	1.364 34.65
M83528/002X114	5302-0114-XX	.103 2.62	.612 15.54
M83528/002X115	5302-0115-XX	.103 2.62	.676 17.17
M83528/002X117	5302-0117-XX	.103 2.62	.799 20.29
M83528/002X126	5302-0126-XX	.103 2.62	1.362 34.59
M83528/002X128	5302-0128-XX	.103 2.62	1.487 37.77
M83528/002X132	5302-0132-XX	.103 2.62	1.737 44.12
M83528/002X134	5302-0134-XX	.103 2.62	1.862 47.30
M83528/002X142	5302-0142-XX	.103 2.62	2.362 59.99
M83528/002X145	5302-0145-XX	.103 2.62	2.550 64.77
M83528/002X155	5302-0155-XX	.103 2.62	3.987 101.27



TechSIL Round Profile Molded O-Rings come in over fifty sizes to fit your specific application. They come with cross sections ranging from .030" to .139" and Inside Diameters ranging from .145" to 3.987". TechSIL molded parts can be molded out of all sixteen standard compounds. The O-Rings can be used with or without a groove. Additional sizes and compounds are available upon request.

3/ Tolerance on dimension B shall be $\pm .003$ for parts with a \varnothing of .070 and below; $\pm .005$ for diameters from .101 to .200

5/ Tolerance on dimension C shall be $\pm .010$ for parts from .000 to 1.500; $\pm .015$ for parts from over 1.500 to 2.500; $\pm .020$ for parts from over 2.500 to 4.500



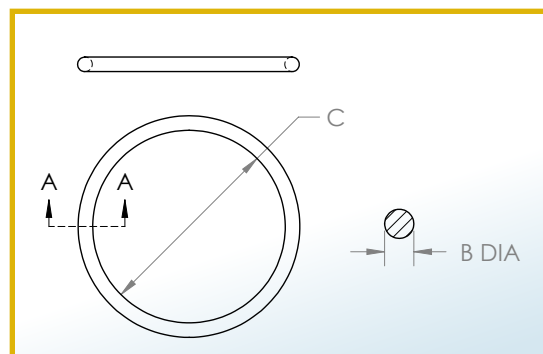
Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under 0.101" (2.6)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

O-Rings

Part Number	Number	3/	4/	Dimension C
M83528/005X001	5305-0001-XX	.030	.76	.442 11.23
M83528/005X002	5305-0002-XX	.030	.76	.577 14.66
M83528/005X003	5305-0003-XX	.030	.76	.692 17.58
M83528/005X004	5305-0004-XX	.030	.76	.817 20.75
M83528/005X005	5305-0005-XX	.039	.99	.425 10.80
M83528/005X006	5305-0006-XX	.048	1.22	.295 7.49
M83528/005X007	5305-0007-XX	.050	1.27	.533 13.54
M83528/005X008	5305-0008-XX	.051	1.30	.446 11.33
M83528/005X009	5305-0009-XX	.057	1.45	.415 10.54
M83528/005X010	5305-0010-XX	.063	1.60	.541 13.74
M83528/005X011	5305-0011-XX	.063	1.60	.648 16.46
M83528/005X012	5305-0012-XX	.068	1.73	.847 21.51
M83528/005X013	5305-0013-XX	.068	1.73	1.182 30.02
M83528/005X014	5305-0014-XX	.068	1.73	3.165 80.39
M83528/005X015	5305-0015-XX	.070	1.78	.495 12.57
M83528/005X016	5305-0016-XX	.070	1.78	.610 15.49
M83528/005X017	5305-0017-XX	.070	1.78	.635 16.13
M83528/005X018	5305-0018-XX	.070	1.78	.667 16.94
M83528/005X019	5305-0019-XX	.070	1.78	.860 21.84
M83528/005X020	5305-0020-XX	.070	1.78	1.230 31.24
M83528/005X021	5305-0021-XX	.103	2.62	1.040 26.42
M83528/005X022	5305-0022-XX	.103	2.62	1.612 40.94
M83528/005X023	5305-0023-XX	.103	2.62	1.790 45.47



TechSIL Round Profile Molded O-Rings come in over fifty sizes to fit your specific application. They come with cross sections ranging from .030" to .139" and Inside Diameters ranging from .145" to 3.987". TechSIL molded parts can be molded out of all sixteen standard compounds. The O-Rings can be used with or without a groove. Additional sizes and compounds are available upon request.

3/ Tolerance on dimension B shall be $\pm .003$ for parts with a \varnothing of .070 and below; $\pm .005$ for diameters from .101 to .200

4/ Tolerance on dimension C shall be $\pm .010$ for parts from .000 to 1.500; $\pm .015$ for parts from over 1.500 to 2.500; $\pm .020$ for parts from over 2.500 to 4.500



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

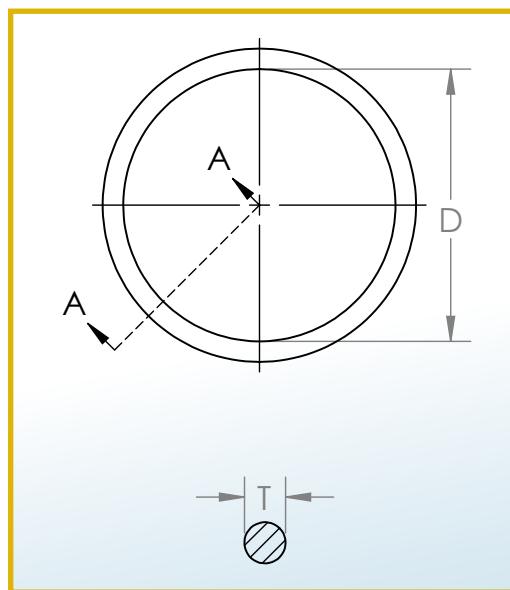
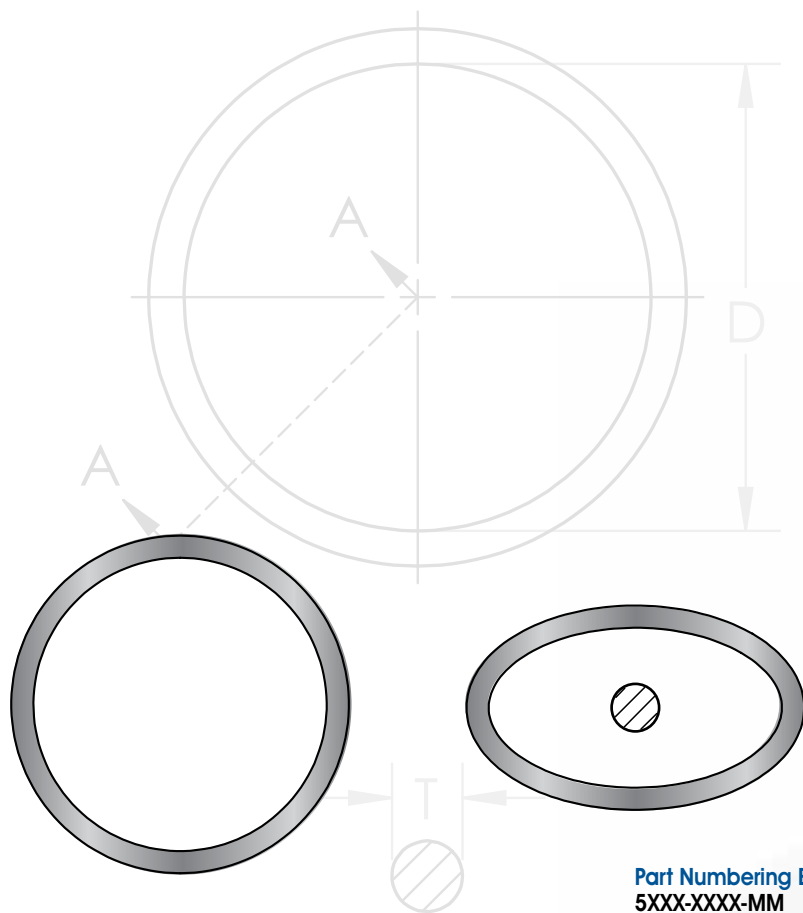
Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071" - 0.100" (1.8 to 2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

O-Rings

Part Number	Number	Dimensions (Configuration D)	
		D (ID)	T
M83528/013X022	5313-0022-XX	2.011 ± .018	.139 ± .004
M83528/013X029	5313-0029-XX	2.683 ± .024	.115 ± .004

TechSIL Round Profile Molded O-Rings come in over fifty sizes to fit your specific application. They come with cross sections ranging from .030" to .139" and Inside Diameters ranging from .145" to 3.987". TechSIL molded parts can be molded out of all sixteen standard compounds. The O-Rings can be used with or without a groove. Additional sizes and compounds are available upon request.



Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

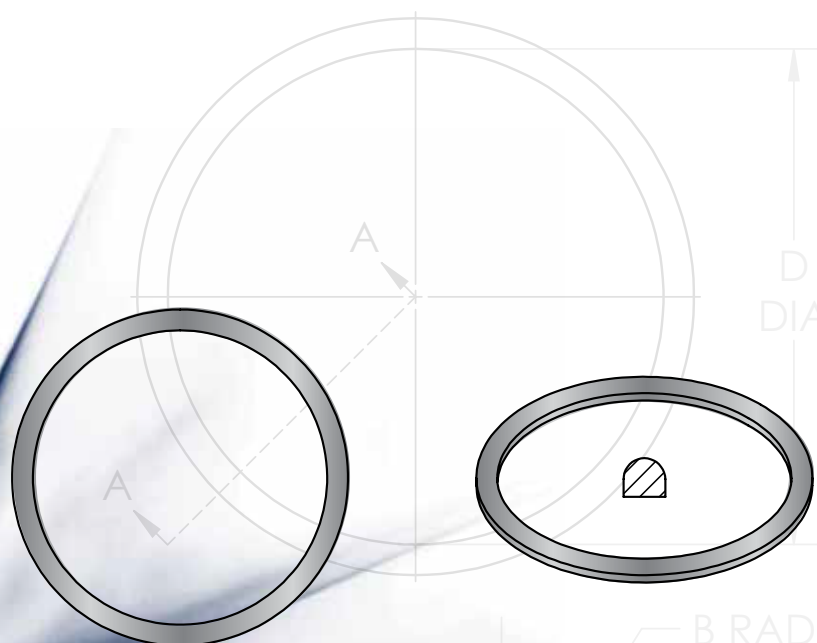
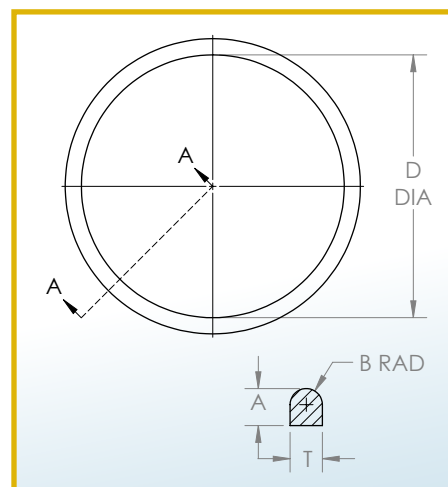
Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071" - 0.100" (1.8 to 2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

O-Rings D Cross Section

		Configuration E							
Part Number	Number	A		B		D (ID)		T	
M83528/013X002	5313-0002-XX	.056	1.42	.041	1.04	.410	10.41	.082	2.08
M83528/013X004	5313-0004-XX	.048	1.22	.039	0.99	.587	14.91	.078	1.98
M83528/013X006	5313-0006-XX	.125	3.18	.078	1.98	.885	22.48	.155	3.94
M83528/013X008	5313-0008-XX	.065	1.65	.049	1.24	1.122	28.50	.099	2.51
M83528/013X011	5313-0011-XX	.088	2.24	.048	1.22	1.340	34.04	.095	2.41
M83528/013X012	5313-0012-XX	.077	1.96	.058	1.47	1.310	33.27	.115	2.92
M83528/013X014	5313-0014-XX	.085	2.16	.048	1.22	1.392	35.36	.095	2.41
M83528/013X017	5313-0017-XX	.078	2.16	.053	1.35	1.550	39.37	.105	2.67
M83528/013X036	5313-0036-XX	.188	4.78	.120	3.05	3.910 ± .026	99.31 .66	.240	6.10

TechSIL "D" Profile Molded O-Rings come in nine different sizes. They come with foot prints ranging from .078" to .240" and have Inside Diameters ranging from .410" to 3.910". TechSIL molded parts can be molded out of all sixteen standard compounds. The O-Rings can be used with or without a groove. Additional sizes and compounds are available upon request.



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071"-0.100" (1.8-2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

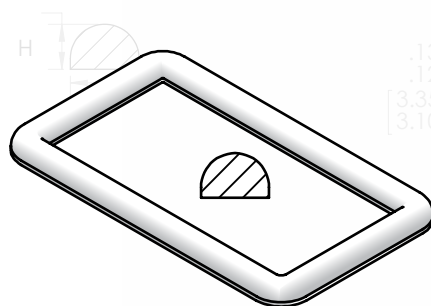
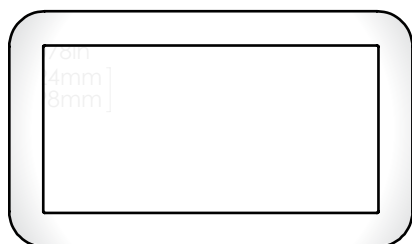
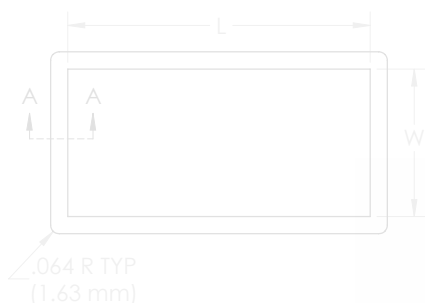
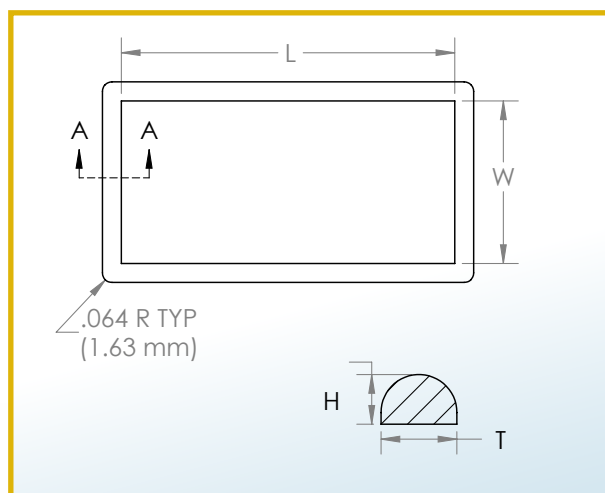
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Rectangle D Cross Section



Part Number	Part Number	MIN		MAX		MIN		MAX		MIN		MAX	
M83528/006X001	5306-0001-XX	.285	7.24	.295	7.49	.983	24.97	.993	25.22	.078	.088	.122	.132
M83528/006X002	5306-0002-XX	.485	12.32	.495	12.57	.983	24.97	.993	25.22	.078	.088	.122	.132
M83528/006X003	5306-0003-XX	.619	15.72	.629	15.98	1.243	31.57	1.253	31.83	.078	.088	.122	.132
M83528/006X004	5306-0004-XX	.815	20.70	.845	21.46	2.985	75.82	3.015	76.58	.078	.088	.122	.132
M83528/006X005	5306-0005-XX	1.325	33.66	1.355	34.42	5.265	133.73	5.295	134.49	.078	.088	.122	.132
N/A	5306-0100-XX	.449	11.35	.489	12.42	.925	23.50	.965	24.51	.093	.103	.093	.103

TechSIL "D" Profile Molded Rectangular Gaskets come in five different sizes and are ideal for use with rectangular connectors. They come with a .127" foot print and a height of .083. These "D" Profile Molded Rectangular Gaskets can be molded out of all sixteen standard compounds. These Rectangular gaskets can be used with or without a groove. Additional sizes and compounds are available upon request.



Part Numbering Example
 5XXX-XXXX-MM
 MM=LTE material code

Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071" - 0.100" (1.8 to 2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

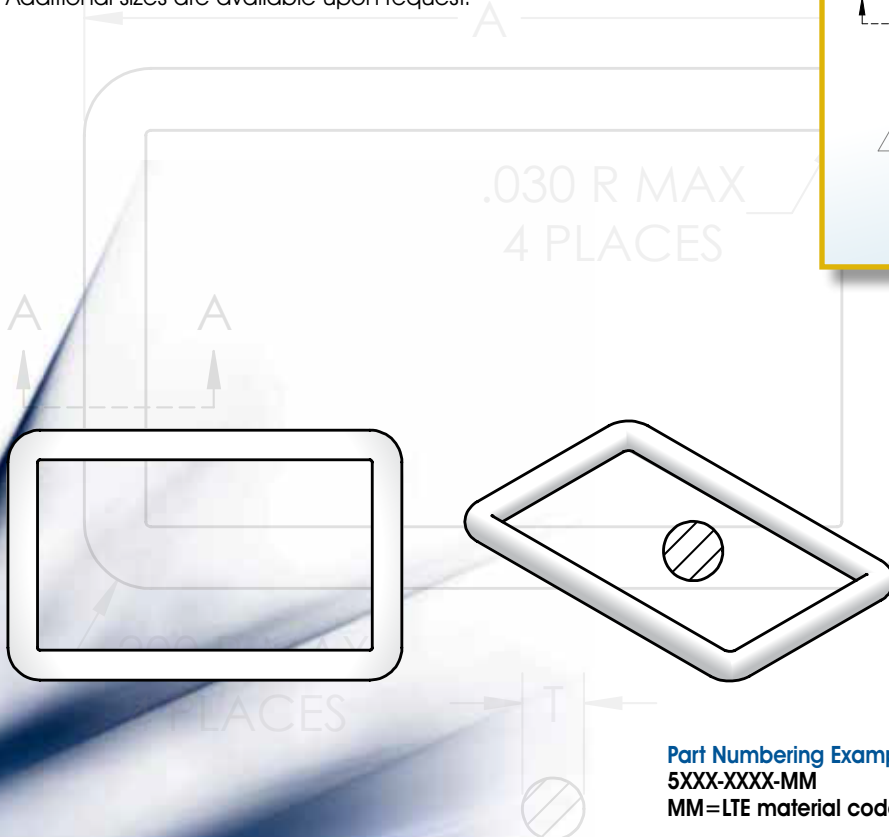
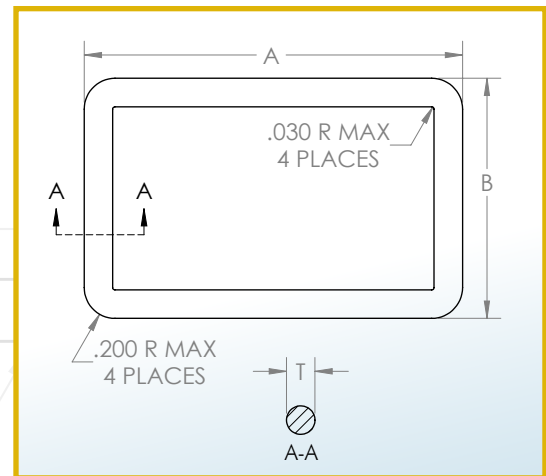
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Rectangle O Cross Section



Part Number	Part Number	A	B	T
M83528/013X013	5313-0013-XX	1.368 ± .012	.868 ± .010	.103 ± .003
M83528/013X018	5313-0018-XX	1.616 ± .015	.991 ± 0.010	.103 ± .003
M83528/013X023	5313-0023-XX	1.866 ± .015	1.116 ± .012	.103 ± .003
M83528/013X030	5313-0030-XX	2.449 ± .020	1.449 ± .013	.139 ± .004
M83528/013X037	5313-0037-XX	3.451 ± .024	1.951 ± .018	.139 ± .004

TechSIL Round Profile Molded Rectangular Gaskets come in five different sizes and are ideal for use with rectangular connectors. They come with a .103" or .139" cross section and four different lengths and widths. These Round Profile Molded Rectangular gaskets can be molded out of all twelve of the MIL-DTL-83528 compounds. These Rectangular gaskets can be used with or without a groove. Additional sizes are available upon request.



Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

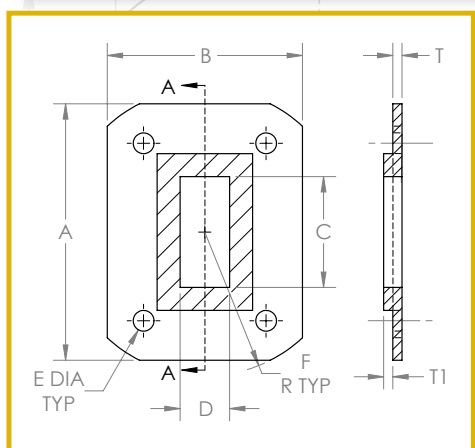
Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071" - 0.100" (1.8 to 2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Part Numbering Example
 5XXX-XXXX-MM
 MM=LTE material code

Waveguide A



MIL-DTL-83528 Part Number	Leader Tech Part Number	Dimensions (Configuration A)								
		A ± .015 (0.38)	B ± .015 (0.38)	C + .015 (0.38) - .000 (0.00)	D + .015 (0.38) - .000 (0.00)	E ± .010 (0.25)	T ± .003 (0.08)	F Radius ± .010 (0.25)		
M83528/013X001	5313-0001-XX	.750 19.05	.750 19.05	.145 3.68	.285 7.24	.116 2.95	.027 .69	.469 11.91		
M83528/013X003	5313-0003-XX	.875 22.23	.875 22.23	.175 4.45	.425 10.80	.116 2.95	.027 .69	.563 14.30		
M83528/013X005	5313-0005-XX	1.313 33.35	1.313 33.35	.630 16.00	.320 8.13	.140 3.56	.027 .69	.875 22.23		
M83528/013X007	5313-0007-XX	1.496 38.00	1.496 38.00	.760 19.30	.385 9.78	.155 3.94	.027 .69	.450 11.43		
M83528/013X009	5313-0009-XX	1.625 41.28	1.625 41.28	.905 22.99	.405 10.29	.169 4.29	.027 .69	.469 11.91		
M83528/013X010	5313-0010-XX	1.594 40.49	2.094 53.19	.405 10.29	.905 22.99	.169 4.29	.027 .69	.250 6.35		
M83528/013X015	5313-0015-XX	1.875 47.63	1.875 47.63	1.130 28.70	.505 12.83	.180 4.57	.027 .69	1.15 29.21		
M83528/013X016	5313-0016-XX	1.750 44.45	2.500 63.50	.505 12.83	1.130 28.70	.171 4.34	.027 .69	.250 6.35		
M83528/013X020	5313-0020-XX	1.937 49.20	2.687 68.25	.633 16.08	1.380 35.05	.206 5.23	.027 .69	.250 6.35		
M83528/013X021	5313-0021-XX	1.531 38.89	2.281 57.94	.632 16.05	1.382 35.10	.150 3.81	.027 .69	.125 3.18		
M83528/013X024	5313-0024-XX	2.438 61.93	3.188 80.98	.805 20.45	1.600 40.64	.257 6.53	.027 .69	.313 7.95		
M83528/013X025	5313-0025-XX	1.750 44.45	2.500 63.50	.800 20.32	1.600 40.64	.160 4.06 .150 3.81	.027 .69	.125 3.18		
M83528/013X027	5313-0027-XX	3.500 88.90	2.500 63.50	1.880 47.75	.880 22.35	.266 6.76	.027 .69	.313 7.95		
M83528/013X028	5313-0028-XX	1.784 45.31	2.781 70.64	.882 22.40	1.882 47.80	.156 3.96 .141 3.58	.027 .69	.125 3.18		
M83528/013X031	5313-0031-XX	2.750 69.85	3.875 98.43	1.155 29.34	2.300 58.42	.270 6.86	.027 .69	.312 7.92		
M83528/013X032	5313-0032-XX	2.000 50.80	3.156 80.16	1.155 29.34	2.300 58.42	.150 3.81	.027 .69	.125 3.18		
M83528/013X034	5313-0034-XX	4.500 114.30	3.000 76.20	2.850 72.39	1.350 34.29	.266 6.76	.027 .69	.313 7.95		
M83528/013X035	5313-0035-XX	3.844 97.64	2.344 59.54	2.850 72.39	1.350 34.29	.172 4.37 .188 4.78	.027 .69	.125 3.18		
M83528/013X038	5313-0038-XX	3.750 95.25	5.440 138.18	1.710 43.43	3.410 86.61	.264 6.71 .250 6.35	.027 .69	.250 6.35		
M83528/013X039	5313-0039-XX	3.750 95.25	5.438 138.13	1.710 43.43	3.410 86.61	.266 6.76	.027 .69	.250 6.35		
M83528/013X040	5313-0040-XX	4.188 106.38	6.344 161.14	2.160 54.86	4.310 109.47	.266 6.76 .281 7.14	.027 .69	.250 6.35		
M83528/013X041	5313-0041-XX	6.344 161.14	4.188 106.38	4.310 109.47	2.160 54.86	.266 6.76	.027 .69	.250 6.35		
M83528/013X042	5313-0042-XX	5.438 138.13	8.688 220.68	3.260 82.80	6.510 165.35	.250 6.35 .328 8.33	.027 .69	.250 6.35		



TechSIL Molded Waveguide Gaskets come in twenty six different sizes and are available in round or rectangular shapes. They come with a .027" thickness and are available in several different lengths and widths. These Molded Waveguide Gaskets can be molded out of all twelve of the MIL-DTL-83528 compounds. Additional sizes are available upon request.

Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071"-0.100" (1.8-2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.20)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.30)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.40)
Over 0.500" (12.7)	+/- 0.020 (0.50)

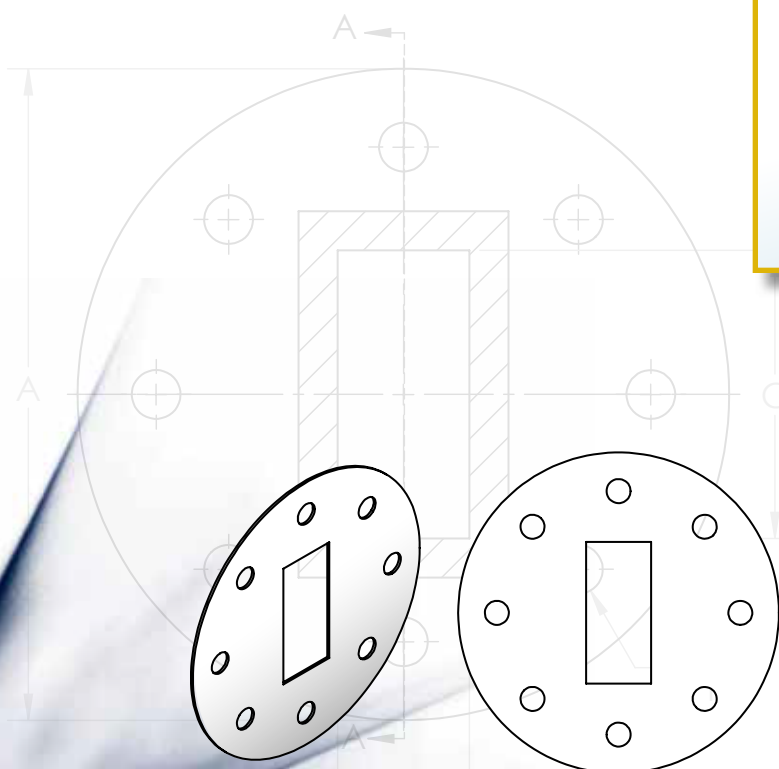
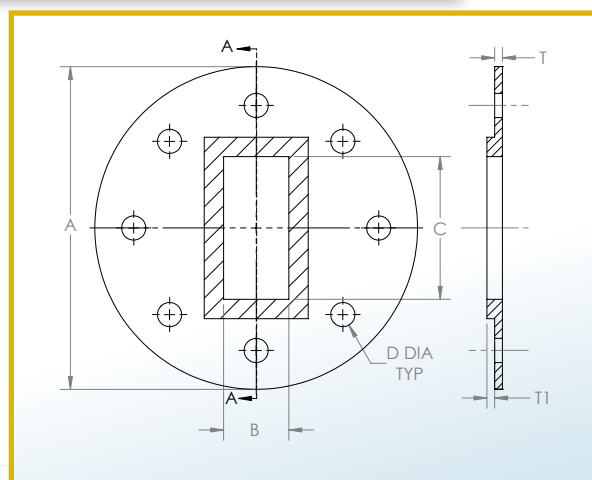
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Waveguide B



MIL-DTL-83528 Part Number	Leader Tech Part Number	Dimensions (Configuration B)				
		A ± .015 (.38)	B + .015 (.38) - .000 (.00)	C + .015 (.38) - .000 (.00)	D ± .010 (.25)	T ± .005 (.13)
M83528/013X019	5313-0019-XX	3.125 79.38	.632 16.05	1.382 35.10	.234 5.94	.027 .69
M83528/013X026	5313-0026-XX	3.625 92.08	.882 22.40	1.882 47.80	.234 5.94	.027 .69
M83528/013X033	5313-0033-XX	5.312 134.92	1.350 34.29	2.850 72.39	.290 7.37	.027 .69

TechSIL Molded Waveguide Gaskets come in twenty six different sizes and are available in round or rectangular shapes. They come with a .027" thickness and are available in several different lengths and widths. These Molded Waveguide Gaskets can be molded out of all twelve of the MIL-DTL-83528 compounds. Additional sizes are available upon request.



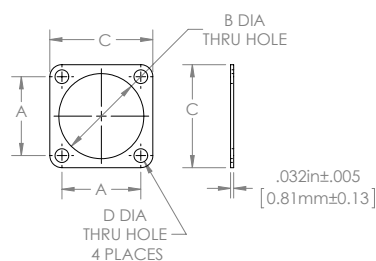
Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

Standard Tolerances for All Profiles Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under .070" (1.8)	+/- 0.003 (0.07)
.071" - 0.100" (1.8-2.5)	+/- 0.005 (0.13)
0.101" - 0.200" (2.6 to 5.1)	+/- 0.008 (0.2)
0.201" - 0.300" (5.1 to 7.6)	+/- 0.010 (0.3)
0.301" - 0.500" (7.6 to 12.7)	+/- 0.015 (0.4)
Over 0.500" (12.7)	+/- 0.020 (0.5)

Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Flange Mount



MIL-DTL-83528 Part Number	Leader Tech Part Number	MIL-DTL-38999			MIL-C-81511	MS90484 (inactive 6/1999)	MIL-DTL-5015	MIL-DTL-83723	NAS 1599 (inactive 6/1980)	MIL-C-26482	Dimensions				Connector Shell size
		Series I	Series II	Series IV							A ± .010	B +.020 - .000	C ± .015	D ± .010	
M83528/004X001	5204-0001-XX							6	6	6	.469 11.91	.375 9.53	.738 18.75	.141 3.58	6
M83528/004X002	5204-0002-XX		8								.594 15.09	.630 16.00	.840 21.34	.135 3.43	8
M83528/004X003	5204-0003-XX				8	8					.594 15.09	.568 14.43	.812 20.62	.125 3.18	8
M83528/004X004	5204-0004-XX						8	8	8	8	.594 15.09	.500 12.70	.875 22.23	.156 3.96	8
M83528/004X005	5204-0005-XX	9	10								.719 18.26	.750 19.05	.965 24.51	.135 3.43	9,10
M83528/004X006	5204-0006-XX				10	10					.719 18.26	.680 17.27	.937 23.80	.125 3.18	10
M83528/004X007	5204-0007-XX						10	10	10	10	.719 18.26	.625 15.88	1.000 25.40	.156 3.96	10S,SL
M83528/004X008	5204-0008-XX	11	12	11							.812 20.62	.875 22.23	1.060 26.92	.141 3.58	11,12
M83528/004X009	5204-0009-XX						12	12	12	12	.813 20.65	.750 22.10	1.094 27.79	.141 3.58	12,12S,SL
M83528/004X010	5204-0010-XX	13	14	13							.906 23.01	1.005 25.53	1.153 29.29	.135 3.43	13,14
M83528/004X011	5204-0011-XX				14	14					.906 23.01	.938 23.83	1.125 28.58	.125 3.18	14
M83528/004X012	5204-0012-XX						14	14	14	14	.906 23.01	.875 22.23	1.188 30.18	.156 3.96	14,14S
M83528/004X013	5204-0013-XX	15	16	15							.969 24.61	1.135 28.83	1.258 31.95	.156 3.96	15,16
M83528/004X014	5204-0014-XX				16	16					.969 24.61	1.063 27.00	1.250 31.75	.125 3.18	16
M83528/004X015	5204-0015-XX						16	16	16	16	.969 24.61	1.000 25.40	1.281 32.54	.156 3.96	16,16S
M83528/004X016	5204-0016-XX	17	18	17							1.062 26.97	1.260 32.00	1.351 34.32	.156 3.96	17,18
M83528/004X017	5204-0017-XX				18	18					1.062 26.97	1.189 30.20	1.343 34.11	.125 3.18	18
M83528/004X018	5204-0018-XX						18	18	18	18	1.062 26.97	1.135 28.83	1.375 34.93	.156 3.96	18,18S
M83528/004X019	5204-0019-XX	19	20	19							1.156 29.36	1.375 34.93	1.500 38.10	.141 3.58	19,20
M83528/004X020	5204-0020-XX				20	20					1.156 29.36	1.312 33.32	1.467 37.26	.125 3.18	20
M83528/004X021	5204-0021-XX						20	20	20	20	1.156 29.36	1.250 31.75	1.500 38.10	.172 4.37	20
M83528/004X022	5204-0022-XX	21	22	21							1.250 31.75	1.500 38.10	1.625 41.28	.141 3.58	21,22
M83528/004X023	5204-0023-XX				22	22					1.250 31.75	1.437 36.50	1.562 39.67	.125 3.18	22
M83528/004X024	5204-0024-XX						22	22	22	22	1.250 31.75	1.375 34.93	1.625 41.28	.172 4.37	22
M83528/004X025	5204-0025-XX	23	24	23							1.375 34.93	1.625 41.28	1.750 44.45	.172 4.37	23,24
M83528/004X026	5204-0026-XX				24	24					1.375 34.93	1.563 39.70	1.703 43.26	.152 3.86	24
M83528/004X027	5204-0027-XX						24	24	24	24	1.375 34.93	1.500 38.10	1.750 44.45	.203 5.16	24
M83528/004X028	5204-0028-XX	25		25							1.500 38.10	1.750 44.45	1.875 47.63	.172 4.37	25
M83528/004X029	5204-0029-XX						28				1.562 39.67	1.750 44.45	2.000 50.80	.203 5.16	28
M83528/004X030	5204-0030-XX						32				1.750 44.45	2.000 50.80	2.250 57.15	.219 5.56	32
M83528/004X031	5204-0031-XX						36				1.938 49.23	2.250 57.15	2.500 63.50	.219 5.56	36
M83528/004X032	5204-0032-XX						40				2.188 55.58	2.500 63.50	2.750 69.85	.219 5.56	40
M83528/004X033	5204-0033-XX						44				2.375 60.33	2.781 70.63	3.000 76.20	.219 5.56	44
M83528/004X034	5204-0034-XX						48				2.625 66.68	3.031 76.99	3.250 82.55	.219 5.56	48
M83528/004X035	5204-0035-XX										.500 12.70	.437 11.10	.800 20.32	.135 3.43	
M83528/004X036	5204-0036-XX										.500 12.70	.437 11.10	.687 17.45	.135 3.43	

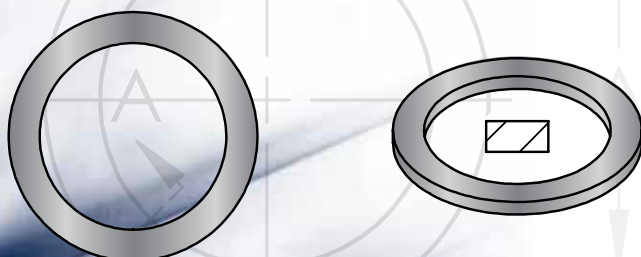
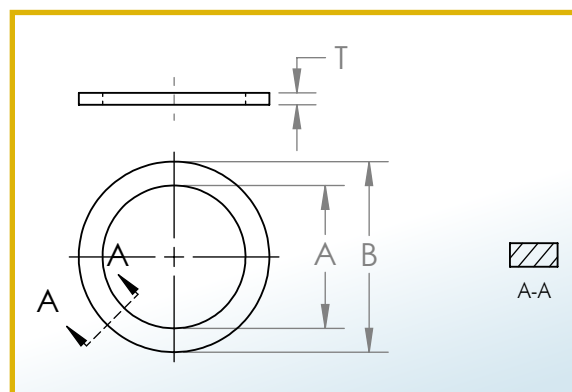
TechSIL Die-Cut Flange Mount Connector Gaskets are square and come in thirty six different sizes. They range from .687" to 3.250" and are available with a .032" thickness. These Die-Cut Flange Mount Connector Gaskets can be Die-Cut out of all sixteen standard compounds. Additional sizes and compounds available upon request.

Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Flat Circular Washer

		Dimensions			
Part Number	Material	A	B	T	
M83528/012X001	5212-0001-XX	.250 6.35	.625 15.86	.031 .79	
M83528/012X002	5212-0002-XX	.250 6.35	.625 15.86	.062 1.57	
M83528/012X003	5212-0003-XX	.375 9.53	.750 19.05	.031 .79	
M83528/012X004	5212-0004-XX	.375 9.53	.750 19.05	.062 1.57	
M83528/012X005	5212-0005-XX	.500 12.70	.656 16.66	.031 .79	
M83528/012X006	5212-0006-XX	.500 12.70	.656 16.66	.062 1.57	
M83528/012X007	5212-0007-XX	.500 12.70	.875 22.23	.031 .79	
M83528/012X008	5212-0008-XX	.500 12.70	.875 22.23	.062 1.57	
M83528/012X009	5212-0009-XX	.750 19.50	1.000 25.40	.031 .79	
M83528/012X010	5212-0010-XX	.750 19.50	1.000 25.40	.062 1.57	
M83528/012X011	5212-0011-XX	1.000 25.40	1.438 36.53	.031 .79	
M83528/012X012	5212-0012-XX	1.000 25.40	1.438 36.53	.062 1.57	

TechSIL Flat Circular Washers come in twelve different sizes and two different thicknesses (.031" and .062"). The Inside Diameters range from .250" to 1.000" with Outside Diameters ranging from .625" to 1.438". These Die-Cut Flat Circular Washers can be Die-Cut out of all sixteen standard compounds. Additional sizes and compounds available upon request.



Part Numbering Example
5XXX-XXXX-MM
MM=LTE material code

Standard Tolerances for Flat Circular Washer Unless Superseded by MIL-DTL-83528

Dimensions	Tolerance
Under .101" (2.57)	+/- 0.005 (0.13)
0.101" - 0.200" (2.57 to 5.08)	+/- 0.010 (0.25)
0.201" - 0.500" (5.11 to 12.70)	+/- 0.015 (0.38)
Over 0.500" (12.70)	+/- 0.020 (0.51)

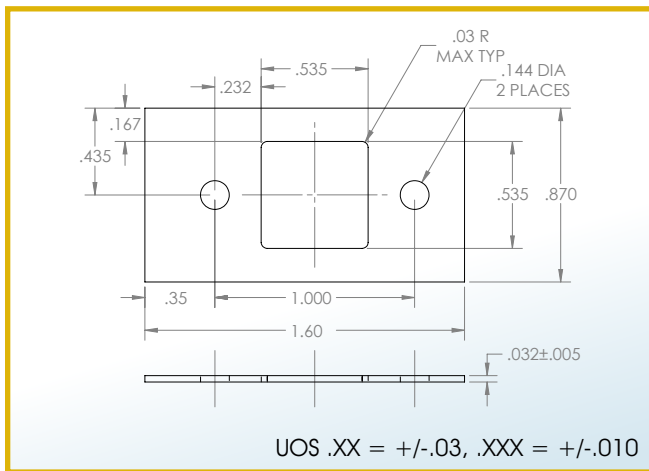
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

Specials

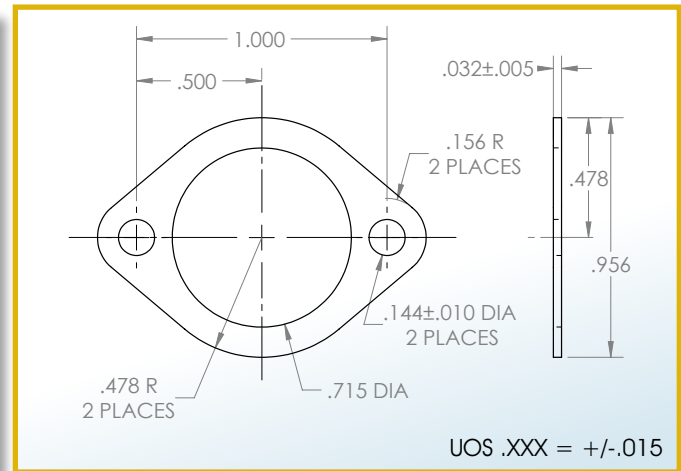


Part Number	
M83528/014X001	5214-0001-XX
M83528/014X002	5214-0002-XX

5214-0001-XX



5214-0002-XX



TechSIL MIL-DTL-83528/014X gaskets come in a .032" thickness. These are specialty gaskets that can be Die-Cut out of all sixteen standard compounds. Additional sizes and compounds available upon request.



Part Numbering Example
 5XXX-XXXX-MM
 MM=LTE material code

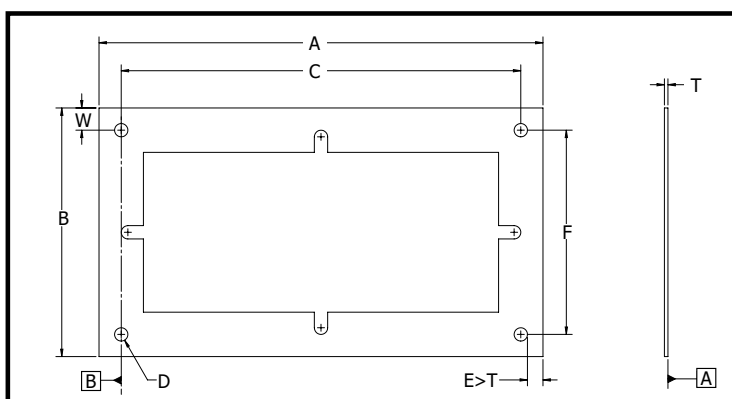
Please refer to page 31 for instruction on how to add PSA adhesive to your part number.

CUSTOM AND DIE-CUT SHIELDING GASKETS

In addition to our large assortment of stock products, Leader Tech offers customers the ability to create custom and die-cut shielding gaskets using any of our conductive elastomer formulations or fabric shielding gasket materials. Our extensive manufacturing capabilities include extrusion, molding and precision die-cut shapes and sizes.

All of our high-performance custom shielding gaskets can be made from your choice of twelve MIL-DTL-83528 Conductive Elastomer compounds or from our Fabric Shielding Gasket material. Depending on your unique application requirements, our engineering team will work to develop a custom gasketing solution that exhibits superior shielding properties and ensures a long performance life in a cost effective manner. Please review your application with our Material Specialist and Engineering Group to determine the best materials to use for your application.

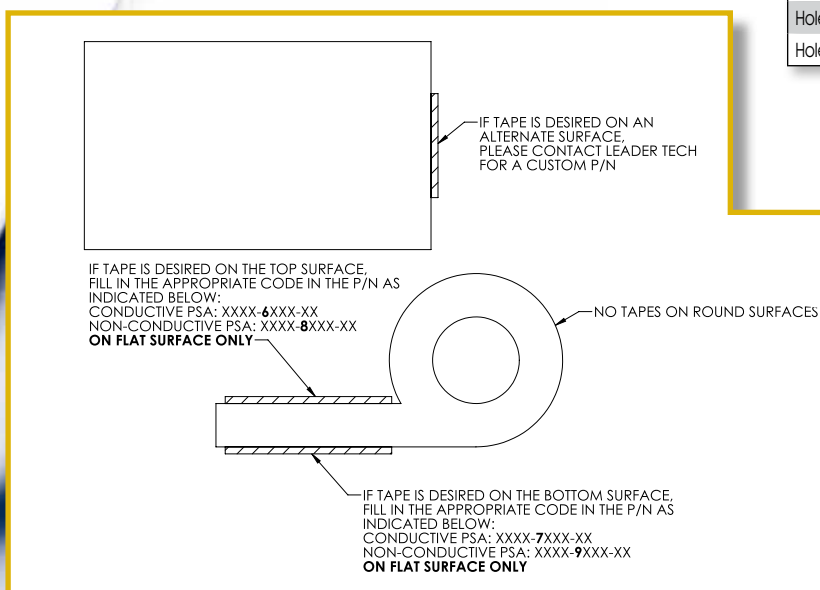
Die Cut Gasket Design Recommendations and Tolerances



NOTES:

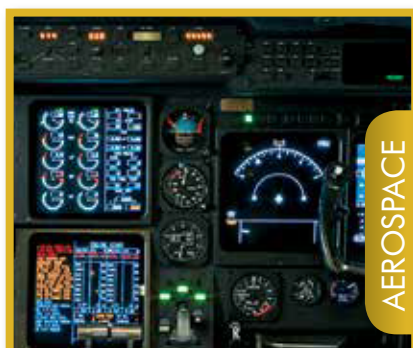
1. Minimum recommended flange width (W) is .125".
2. Hole diameter (D) must exceed material thickness (T).
3. Distance edge of hole to edge of gasket (E) must exceed material thickness (T). If not possible, then a slot is required.
4. Recommend assign datum to hole C/L and not to edge of gasket.

PSA Non-Conductive Tape Location



Tolerance Range

Feature Type	Sample Dim.	0 - 4"	4.1 - 12"	12.1 - 24"
Length/Width	A, B, W	+/- .020	+/- .030	+/- .040
Hole Location	C, F	+/- .010	+/- .015	+/- .020
Hole Diameter	D	+/- .020	+/- .030	+/- .040



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Leader Tech's TechSIL Conductive Elastomer materials are ideal for applications requiring both excellent EMI shielding and environmental sealing across a wide temperature range. Conductive Elastomers are frequently found in military and aerospace applications but can also be applied economically to meet commercial design requirements. Our proprietary TechSIL compounds are formulated by combining both silicone and fluorosilicone based rubber with various forms of conductive fillers including: silver plated copper, silver plated aluminum, silver plated glass and nickel coated graphite. All formulations are compounded to be compatible with common fluid media and resist compression set resulting in years of continuous service.



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- Quality and cost effective shielding products
- Expert engineering and application support teams
- Rapid production and delivery options
- Extremely responsive customer service
- Modern, advanced manufacturing capabilities

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FerriShield Ferrites

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- Round & Flat Styles for Cables, Wires and Flex Circuits
- Low, High, Microwave and Wideband Frequency-Specific Material

Enclosure Shielding

- BeCu Fingerstock Gaskets
- TechSIL 5000 Conductive Elastomers
- Conductive Fabric Shielding Gaskets
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- TechVENT Honeycomb Shielding Panels

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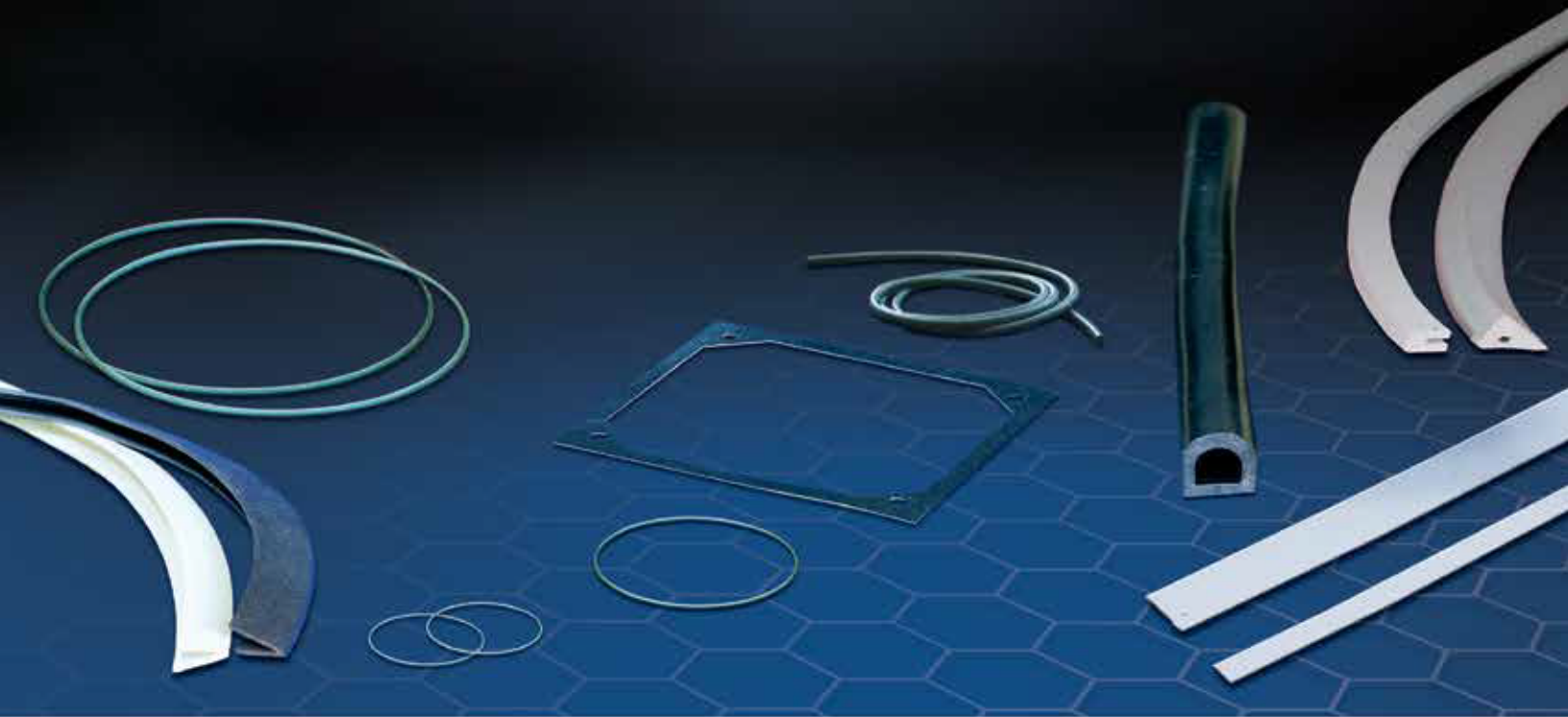
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