



# ElectroSeal Conductive Elastomer Material Data

Table 2. Electrically Conductive Elastomers Material Compounds

PARAMETER	TEST METHOD	Ni/graphite	silver/copper	silver/Al	silver	silver	silver/nickel	silver/glass	carbon
Filler									
Elastomer		silicone	silicone	silicone	silicone	silicone	silicone	silicone	silicone
EcE Name		EcE72	EcE80	EcE81	EcE82	EcE83	EcE84	EcE85	EcE87
<b>Electrical Properties</b>									
Volume Resistivity, $\Omega$ cm, max	MIL-DTL-83528C para 4.5.10	0.100	0.004	0.008	0.002	0.010	0.005	0.006	5.0
Shielding Eff, 10 GHz, dB, min	MIL-DTL-83528C para 4.5.12	100	120	100	120	80	100	100	30
<b>Physical Properties</b>									
Density, g/cm <sup>3</sup> ( $\pm 0.25$ )	ASTM D792	2.30	3.40	2.00	3.50	1.80	4.00	1.90	1.30
Hardness, Shore A ( $\pm 7$ )	ASTM D2240	75	65	65	65	45	75	65	75
Tensile Strength, psi, min	ASTM D412	280	200	200	300	150	200	200	700
Elongation	ASTM D412	150%	100-300%	100-300%	100-300%	50-250%	100-300%	100-300%	100-300%
Tear Strength, ppi, min	ASTM D624, die C	55	25	30	50	20	30	30	50
Compression Set, max	ASTM D395	30%	32%	32%	45%	35%	32%	30%	45%
Max Oper. Temp., °C	MIL-DTL-83528C para 4.5.15	160	125	160	160	160	125	160	160
Min. Oper. Temp., °C	ASTM D1329	-55	-55	-55	-55	-55	-55	-55	-55
Flame Retardance	UL 94	V-0			UL 94 HB (File No. E203 070)				
<b>Electrical Stability</b>									
After Heat Aging, $\Omega$ cm, max	MIL-DTL-83528C para 4.5.15	-	0.010	0.010	0.010	0.015	0.010	0.015	7.0
After Break, $\Omega$ cm, max	MIL-DTL-83528C para 4.5.9	-	0.008	0.015	0.010	0.020	0.010	0.009	7.0
During Vibration, $\Omega$ cm, max	MIL-DTL-83528C para 4.5.13	-	0.006	0.012	0.010	0.015	0.010	0.009	N/A
After Exposure to EMP, $\Omega$ cm, max	MIL-DTL-83528C para 4.5.16	-	0.010	0.010	0.010	0.015	0.010	0.015	N/A
Compression / Deflection, %, min	ASTM D575	8	3.5	3.5	2.5	8.0	3.5	3.5	3.5
Fluid Immersion <sup>1</sup>	MIL-DTL-83528C para 4.5.17	-	NS	NS	NS	NS	NS	NS	NS
<b>Manufacturing Processes</b>									
molded sheet / diecut parts		X	X	X	X	X	X	X	X
molded shapes / O-rings		X	X	X	X	X	X	X	X
extruded profiles		X	X	X	X	X	X	X	
Color		gray	tan	tan	beige	beige	tan	tan	black
Mil-DTL-83528 Type		-	A	B	E	J	L	M	-

1 SUR indicates meets the immersion test requirements for 10 specified military/aerospace fluids  
2 UL94 V-1

3 used only for low density low hardness  
4 UL94 HB  
5 corrosion resistant silver/Al filler



# ElectroSeal Conductive Elastomer Material Data

Table 2. Electrically Conductive Elastomers Material Compounds (continued)

PARAMETER	TEST METHOD						
Filler	Ni/ graphite	silver/ copper	nickel	N/A	carbon	Ni/ graphite	silver/Al
Elastomer	silicone	silicone	silicone	silicone	EPDM	EPDM	EPDM
EcE Name	EcE93	EcE94	EcE100	NCE220	EcE13	EcE95	EcE96
<b>Electrical Properties</b>							
Volume Resistivity, Ω cm, max	0.100	0.005	0.200	Non	30	0.100	0.010
Shielding Eff, 10 GHz, dB, min	100	120	–	Conductive	30	70	90
<b>Physical Properties</b>							
Density, g/cm <sup>3</sup> (±0.25)	1.90	3.60	4.00	1.20	1.20	2.20	2.20
Hardness, Shore A (±7)	55	85	75	70	80	80	80
Tensile Strength, psi, min	150	400	450	405	2000	200	200
Elongation	100-300%	100-300%	–	100-400%	100-400%	70-260%	70-260%
Tear Strength, ppi, min	30	40	50	–	100	60	60
Compression Set, max	30%	35%	–	–	30%	40%	50%
Max Oper. Temp., °C	160	125	160	150	125	125	160
Min. Oper. Temp., °C	-55	-45	-55	-50	-40	-40	-40
Flame Retardance	UL 94 HB (File No. E203 070)			UL 94 HB (File No. E203 070)			
<b>Electrical Stability</b>							
After Heat Aging, Ω cm, max	0.200	0.010	0.400	n/a	40	–	–
After Break, Ω cm, max	0.200	0.010	–	n/a	–	–	–
During Vibration, Ω cm, max	0.200	0.010	–	n/a	–	–	–
After Exposure to EMP, Ω cm, max	0.100	0.015	–	n/a	–	–	–
Compression / Deflection, %, min	8.0	2.5	–	–	3.0	3.0	3.0
Fluid Immersion <sup>1</sup>	NS	NS	NS	–	NS	NS	NS
<b>Manufacturing Processes</b>							
molded sheet / diecut parts	X	X	X	X	X	X	X
molded shapes / O-rings	X	X	X	X	X	X	X
extruded profiles	X	X	X	X		X	X
Color	black	tan	dk gray	blue	black	black	tan
Mil-DTL-83528 Type	–	K	–	–	–	–	–





# ElectroSeal Conductive Elastomer Material Data

Table 2. Electrically Conductive Elastomers Material Compounds (continued)

PARAMETER	TEST METHOD					
	silver/ glass	silver/Al	silver/ copper	silver/Al	silver/ nickel	Ni/ graphite
Filler	fluorosilicone	fluorosilicone	fluorosilicone	fluorosilicone	fluorosilicone	fluorosilicone
Elastomer	fluorosilicone	fluorosilicone	fluorosilicone	fluorosilicone	fluorosilicone	fluorosilicone
EcE Name	EcE11	EcE50	EcE88	EcE89	EcE90	EcE92
<b>Electrical Properties</b>						
Volume Resistivity, $\Omega$ cm, max	0.010	0.012	0.010	0.012	0.005	0.100
Shielding Eff, 10 GHz, dB, min	90	95	110	100	100	100
<b>Physical Properties</b>						
Density, g/cm <sup>3</sup> ( $\pm 0.25$ )	2.00	2.10	4.10	2.20	4.10	2.20
Hardness, Shore A ( $\pm 7$ )	75	75	75	70	75	75
Tensile Strength, psi, min	200	200	180	180	300	150
Elongation	60-200%	60-260%	100-300%	60-260%	100-300%	60-250%
Tear Strength, ppi, min	30	35	30	30	50	40
Compression Set, max	30%	30%	35%	30%	25%	30%
Max Oper. Temp., °C	160	160	125	160	160	160
Min. Oper. Temp., °C	-50	-55	-55	-55	-50	-55
Flame Retardance	UL 94 HB (File No. E203 070)					
<b>Electrical Stability</b>						
After Heat Aging, $\Omega$ cm, max	0.015	0.015	0.015	0.015	0.010	0.200
After Break, $\Omega$ cm, max	0.015	0.015	0.015	0.015	0.010	0.200
During Vibration, $\Omega$ cm, max	0.015	0.015	0.015	0.015	0.010	0.200
After Exposure to EMP, $\Omega$ cm, max	–	0.015	0.015	0.015	0.010	0.100
Compression / Deflection, %, min	3.0	3.0	3.5	3.5	3.0	5.0
Fluid Immersion <sup>1</sup>	SUR	SUR	SUR	SUR	SUR	SUR
<b>Manufacturing Processes</b>						
molded sheet / diecut parts	X	X	X	X	X	X
molded shapes / O-rings	X	X	X	X	X	X
extruded profiles	X	X	X	X	X	X
Color	tan	tan	tan	blue	tan	dk gray
Mil-DTL-83528 Type	–	–	C	D	–	–



# ElectroSeal Conductive Elastomer Material Data

**Table 2. Electrically Conductive Elastomers Material Compounds (continued)**

EcE Material Number			90	91	92	93	94	95	96	97	98	99
<b>MIL-DTL-83528C MATERIAL TYPE</b>							<b>K</b>			<b>H</b>	<b>G</b>	<b>F</b>
<b>Elastomer Type:</b> Silicone=SIL, Fluorosilicone=FSIL Fluorocarbon=FC, Thermoplastic Rubber=TPR Ethylene Propylene Diene Monomer=EPDM			FSIL	EPDM	FSIL	SIL	SIL	EPDM	EPDM	SIL	SIL	FSIL
<b>Filler Material:</b> Silver=Ag, Copper=Cu, Aluminum=Al Nickel=Ni, Glass=G, Inert Coated Aluminum=IA Nickel-coated Graphite=Ni/C, Carbon=C			Ag/Ni	Ag/Ni	Ni/C	Ni/C	Ag/Cu	Ni/C	Ag/Al	Ag	Ag/Cu with expanded metal foil	Ag
<b>Color</b>			Tan	Tan	Dark Gray	Black	Tan	Black	Tan	Tan	Tan	Beige
<b>Electrical Properties</b>	<b>Tol.</b>	<b>Test Method</b>										
Volume Resistivity (ohm-cm) (as supplied)	Max.	MIL-DTL-83528C (PARA 4.5.10)	0.005	0.010	0.100	0.100	0.005	0.150	0.010	0.005	0.007	0.002
Shielding Effectiveness (dB)	Min.	MIL-DTL-83528C (PARA 4.5.12)	70	60	50	50	70	50	50	70	70	70
200 KHz (H-Field)		MIL-STD-285	110	110	100	100	120	80	100	120	120	120
100 MHz (E-Field)			100	100	100	100	120	70	100	120	120	120
500 MHz (E-Field)			100	100	100	100	120	70	90	120	120	110
2 GHz (Plane Wave)			100	100	100	100	120	70	90	120	120	110
10 GHz (Plane Wave)			100	100	100	100	120	70	90	120	120	110
<b>Electrical Stability</b>												
After Heat Aging (ohm-cm)	Max.	MIL-DTL-83528C (PARA 4.5.15)	0.010	N/A	0.200	0.200	0.010	N/A	N/A	0.008	0.010	0.010
After Break (ohm-cm)	Max.	MIL-DTL-83528C (PARA 4.5.9)	0.010	0.050	0.200	0.200	0.010	N/A	N/A	0.005	N/A	0.010
During Vibration	Max.	MIL-DTL-83528C (PARA 4.5.13)	0.010	N/A	0.200	0.200	0.010	N/A	N/A	0.006	0.010	0.010
After Vibration (ohm-cm)			0.005	N/A	0.100	0.100	0.005	N/A	N/A	0.005	0.007	0.002
After Exposure to EMP (ohm-cm) (0.9 kAmp/inch of perimeter)	Min.	MIL-DTL-83528C (PARA 4.5.16)	0.010	N/A	0.100	0.100	N/A	N/A	N/A	0.008	0.010	0.010
<b>Physical Properties</b>												
Specific Gravity	± 0.25	ASTM D792	4.10	3.70	2.20	1.90	3.60	2.20	2.20	3.70	4.30	4.10
Hardness (Shore A)	± 7	ASTM D2240	75	80	75	55	85	80	80	80	80	75
Tensile Strength (PSI)	Min.	ASTM D412	300	200	150	150	400	200	200	400	600	250
Elongation (%)	Min./Max.	ASTM D412	100/300	100/350	60/250	100/300	100/300	70/260	70/260	100/300	20/NA	100/300
Tear Strength (PPI)	Min.	ASTM D624 (DIE C)	50	60	40	30	40	60	60	60	70	40
Compression Set (%)	Max.	ASTM D395	25	40	30	30	35	40	40	40	N/A	60
Upper Operating Temperature (°C)	Max.	ASTM D1329	160	125	160	160	125	125	160	160	125	160
Lower Operating Temperature (°C)	Min.		-50	-40	-55	-55	-45	-40	-40	-55	-45	-65
Compression/Deflection (%)	Min.	ASTM D575	3.0	3.0	5.0	8.0	2.5	3.0	3.0	2.5	2.5	3.5
Fluid Immersion <sup>a</sup>		MIL-DTL-83528C (PARA 4.6.17)	SUR	N/A	SUR	N/S	N/S	N/A	N/A	N/S	N/S	SUR
<b>Recommended Application</b>												
Molded Sheet/Die-Cut Parts			X	X	X	X	X	X	X	X	X <sup>d</sup>	X
Extruded Profiles			X		X	X	X	X <sup>e</sup>	X <sup>e</sup>	X		X
Metal/Elastomer Seals			X	X					X	X		X
O-Rings/Molded Shapes			X	X	X	X	X	X	X	X		X

Compounds not available in all profiles. Contact Application Engineering Department for assistance.

**NOTES:**

N/A = Not Applicable or Not Tested to Specification

N/S = Not Survivable

N/P = Not Possible

S = Survivable

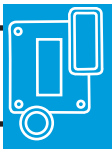
a: Tested to specific fluids per MIL-DTL-83528C PARA 4.6.17

b: Needs special tooling for molded shapes and O-rings

c: Extruded profiles made from CP665X

d: Expanded copper foil reinforced available in 0.027 ± 0.005 inch sheet stock only

All dimensions shown are in inches (millimeters) unless otherwise specified.



## Overview

Laird Technologies provides a full line of fabricated conductive elastomers. These products are offered in a wide range of materials to meet your particular application. In addition to the standard components shown, Laird Technologies can supply molded and vulcanized EcE gaskets to meet custom configurations required to package electronic components in either cast or sheet metal enclosures.

## Molded O-Rings

O-rings, when installed in a groove design that allows 10%–20% compression and 80%–95% gland fill, will provide both an EMI and moisture seal. Custom tools can be fabricated for prototypes and production quantities when diameters are larger than 2.000 in. (50,8 mm). Round strips can also be vulcanized to create O-rings to include parts with diameters larger than 3.000 in. (76,2 mm). Consult Laird Technologies sales department for sizes not shown in this catalog.

## Flat Washers

Table 3 shows some of the standard sizes of washers that can be die-cut from sheet material. Besides the circular shape, intricate shapes can be designed and die-cut to meet custom requirements.

## Molded D-Rings

Tables 4, 5 and 6 show standard sizes of molded rings. These components, as in the O-rings above, can be supplied spliced and vulcanized to dimensions in excess of two inches I.D.

## Flat Waveguide Gaskets

The die-cut gaskets shown in Tables 7 and 8 are designed to provide effective EMI shielding and pressure sealing for choke cover and contact flanges. Gaskets shown in this table can be supplied from the sheet materials shown in Table A.



## Sheet Material

Table A lists thicknesses and sizes for our molded sheet material, while Table 2, pages 14–17, shows the compounds available for all of our conductive silicone elastomers.

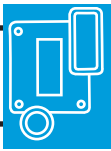
Table A.

Thickness/Tolerance	10 X 10 Sheet	10 X 15 Sheet	15 X 20 Sheet	18 X 18 Sheet
0.020 ± 0.004 (0,5 ± 0,1)	8860-0020-100-XX	8860-0020-150-XX	8860-0020-300-XX	N/A
0.032 ± 0.005 (0,8 ± 0,1)	8860-0032-100-XX	8860-0032-150-XX	8860-0032-300-XX	8860-0032-324-XX
0.045 ± 0.005 (1,1 ± 0,1)	8860-0045-100-XX	8860-0045-150-XX	8860-0045-300-XX	8860-0045-324-XX
0.062 ± 0.007 (1,5 ± 0,2)	8860-0062-100-XX	8860-0062-150-XX	8860-0062-300-XX	8860-0062-324-XX
0.093 ± 0.010 (2,3 ± 0,3)	8860-0093-100-XX	8860-0093-150-XX	8860-0093-300-XX	8860-0093-324-XX
0.100 ± 0.010 (2,5 ± 0,3)	8860-0100-100-XX	8860-0100-150-XX	8860-0100-300-XX	8860-0100-324-XX
0.125 ± 0.010 (3,2 ± 0,3)	8860-0125-100-XX	8860-0125-150-XX	8860-0125-300-XX	8860-0125-324-XX

## How to Specify

1. Determine the standard Laird Technologies part number from Tables 1–8 based upon configuration.
2. Select the material compound from Table 2, pages 14–17, and replace the XX with the two-digit material designation.
3. Submit the complete part number to Laird Technologies for pricing and delivery information.

All dimensions shown are in inches (millimeters) unless otherwise specified.



## Molded EMI O-Rings

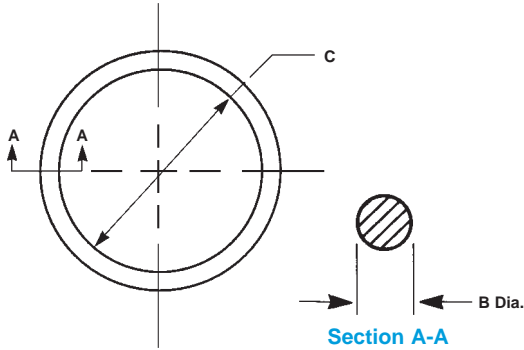


Table 1. MIL-DTL-83528 Series

MIL-DTL-83528 Part No.	Laird Technologies Part No.	Dimensions	
		C	B
	8563-0322-XX	0.050 (1,3)	0.063 (1,6)
	8563-0258-XX	0.143 (3,6)	0.070 (1,8)
M83528/002X007	8563-0068-XX	0.145 (3,7)	0.070 (1,8)
	8563-0143-XX	0.150 (3,8)	0.062 (1,6)
	8563-0193-XX	0.171 (4,3)	0.139 (3,5)
	8563-0334-XX	0.176 (4,5)	0.070 (1,8)
	8563-0326-XX	0.260 (6,6)	0.030 (0,8)
	8563-0343-XX	0.270 (6,9)	0.070 (1,8)
M83528/005X006	8563-0106-XX	0.295 (7,5)	0.048 (1,2)
	8563-0336-XX	0.300 (7,6)	0.093 (2,4)
M83528/002X011	8563-0069-XX	0.301 (7,6)	0.070 (1,8)
	8563-0209-XX	0.312 (7,9)	0.062 (1,6)
	8563-0259-XX	0.334 (8,5)	0.070 (1,8)
M83528/002X012	8563-0070-XX	0.364 (9,2)	0.070 (1,8)
	8563-0243-XX	0.415 (10,5)	0.057 (1,4)
M83528/002X013	8563-0071-XX	0.426 (10,8)	0.070 (1,8)
M83528/005X008	8563-0108-XX	0.446 (11,3)	0.051 (1,3)
	8563-0171-XX	0.480 (12,2)	0.050 (1,3)
	8563-0728-XX	0.482 (12,2)	0.070 (1,8)
M83528/002X014	8563-0072-XX	0.489 (12,4)	0.070 (1,8)
	8563-0196-XX	0.492 (12,5)	0.070 (1,8)
	8563-0327-XX	0.500 (12,7)	0.100 (2,5)
M83528/002X015	8563-0073-XX	0.551 (14,0)	0.070 (1,8)
M83528/005X016	8563-0116-XX	0.610 (15,5)	0.070 (1,8)
M83528/002X114	8563-0091-XX	0.612 (15,5)	0.103 (2,6)
	8563-0285-XX	0.632 (16,1)	0.062 (1,6)
M83528/005X017	8563-0117-XX	0.635 (16,1)	0.070 (1,8)
M83528/005X011	8563-0111-XX	0.648 (16,5)	0.063 (1,6)
M83528/002X017	8563-0074-XX	0.676 (17,2)	0.070 (1,8)
	8563-0211-XX	0.676 (17,2)	0.070 (1,8)
M83528/002X018	8563-0075-XX	0.739 (18,8)	0.070 (1,8)
	8563-0218-XX	0.755 (19,2)	0.097 (2,5)
M83528/002X019	8563-0076-XX	0.801 (20,3)	0.070 (1,8)
	8563-0212-XX	0.801 (20,3)	0.070 (1,8)
M83528/002X020	8563-0077-XX	0.864 (21,9)	0.070 (1,8)
	8563-0344-XX	0.921 (23,4)	0.139 (3,5)
M83528/002X021	8563-0078-XX	0.926 (23,5)	0.070 (1,8)
M83528/002X022	8563-0079-XX	0.989 (25,1)	0.070 (1,8)
	8563-0213-XX	0.989 (25,1)	0.070 (1,8)
	8563-0279-XX	1.000 (25,4)	0.250 (6,4)
	8563-0295-XX	1.046 (26,6)	0.070 (1,8)
	8563-0062-XX	1.100 (27,9)	0.070 (1,8)
M83528/002X024	8563-0080-XX	1.114 (28,3)	0.070 (1,8)
M83528/005X013	8563-0113-XX	1.182 (30,0)	0.068 (1,7)
	8563-0230-XX	1.230 (31,2)	0.139 (3,5)

All dimensions shown are in inches (millimeters) unless otherwise specified.

## Tolerances: Table 1 and Table 2

Inner Dimensions: C	Tolerances
0.100 to 1.500 (3 to 38)	± 0.010 (0,3)
1.501 to 2.500 (38 to 64)	± 0.015 (0,4)
2.501 to 4.500 (64 to 114)	± 0.020 (0,5)
4.501 to 7.000 (114 to 178)	± 0.025 (0,6)
over 7.000 (178)	± 0.35% nom. dim.
Cross Section Dimensions: B	Tolerances
0.000 to 0.070 (0,0 to 1,8)	± 0.003 (0,1)
0.071 to 0.200 (1,8 to 5,1)	± 0.005 (0,1)
0.201 to 0.400 (5,1 to 10,2)	± 0.006 (0,2)

Table 1. MIL-DTL-83528 Series (continued)

MIL-DTL-83528 Part No.	Laird Technologies Part No.	Dimensions	
		C	B
M83528/002X026	8563-0089-XX	1.239 (31,5)	0.070 (1,8)
	8563-0161-XX	1.239 (31,5)	0.070 (1,8)
M83528/002X126	8563-0094-XX	1.362 (34,6)	0.103 (2,6)
M83528/002X028	8563-0090-XX	1.364 (34,6)	0.070 (1,8)
	8563-0163-XX	1.364 (34,6)	0.070 (1,8)
	8563-0165-XX	1.366 (34,7)	0.070 (1,8)
	8563-0324-XX	1.463 (37,2)	0.080 (2,0)
	8563-0284-XX	1.484 (37,7)	0.211 (5,4)
M83528/002X128	8563-0095-XX	1.487 (37,8)	0.103 (2,6)
	8563-0164-XX	1.487 (37,8)	0.103 (2,6)
	8563-0166-XX	1.489 (37,8)	0.070 (1,8)
	8563-0162-XX	1.602 (40,7)	0.103 (2,6)
M83528/005X022	8563-0122-XX	1.612 (40,9)	0.103 (2,6)
	8563-0158-XX	1.612 (40,9)	0.103 (2,6)
M83528/002X132	8563-0096-XX	1.737 (44,1)	0.103 (2,6)
	8563-0160-XX	1.737 (44,1)	0.103 (2,6)
	8563-0167-XX	1.739 (44,2)	0.070 (1,8)
M83528/005X023	8563-0123-XX	1.790 (45,5)	0.103 (2,6)
	8563-0157-XX	1.799 (45,7)	0.103 (2,6)
	8563-0178-XX	1.800 (45,7)	0.080 (2,0)
M83528/002X134	8563-0097-XX	1.862 (47,3)	0.103 (2,6)
	8563-0168-XX	1.989 (50,5)	0.070 (1,8)
	8563-0280-XX	2.000 (50,8)	0.250 (6,4)
	8563-0159-XX	2.050 (52,1)	0.103 (2,6)
	8563-0125-XX	2.059 (52,3)	0.160 (4,1)
	8563-0192-XX	2.114 (53,7)	0.070 (1,8)
	8563-0054-XX	2.120 (53,8)	0.119 (3,0)
	8563-0145-XX	2.143 (54,4)	0.125 (3,2)
	8563-0061-XX	2.218 (56,3)	0.070 (1,8)
	8563-0228-XX	2.364 (60,0)	0.070 (1,8)
M83528/002X142	8563-0098-XX	2.367 (60,1)	0.103 (2,6)
	8563-0240-XX	2.436 (61,9)	0.053 (1,3)
	8563-0227-XX	2.509 (63,7)	0.101 (2,6)
	8563-0232-XX	2.614 (66,4)	0.070 (1,8)
	8563-0338-XX	2.638 (67,0)	0.062 (1,6)
	8563-0142-XX	2.683 (68,1)	0.119 (3,0)
	8563-0055-XX	3.070 (78,0)	0.080 (2,0)
	8563-0060-XX	3.071 (78,0)	0.070 (1,8)
	8563-0180-XX	3.158 (80,2)	0.062 (1,6)
	8563-0241-XX	3.209 (81,5)	0.070 (1,8)
	8563-0188-XX	3.225 (81,9)	0.216 (5,5)
	8563-0271-XX	3.237 (82,2)	0.032 (0,8)
	8563-0242-XX	3.356 (85,2)	0.053 (1,3)
	8563-0144-XX	3.425 (87,0)	0.160 (4,1)
	8563-0262-XX	3.460 (87,9)	0.103 (2,6)
	8563-0136-XX	3.559 (90,4)	0.139 (3,5)
	8563-0216-XX	3.806 (96,7)	0.125 (3,2)
	8563-0281-XX	3.989 (101,3)	0.070 (1,8)
	8563-0274-XX	4.450 (113,0)	0.070 (1,8)
	8563-0139-XX	4.690 (119,1)	0.062 (1,6)
	8563-0190-XX	4.739 (120,4)	0.070 (1,8)
	8563-0056-XX	5.240 (133,1)	0.070 (1,8)
	8563-0282-XX	5.394 (137,0)	0.103 (2,6)

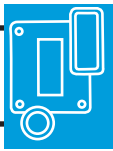


Table 1. MIL-DTL-83528 Series (continued)

MIL-DTL-83528 Part No.	Laird Technologies Part No.	Dimensions	
		C	B
	8563-0186-XX	5.500 (139,7)	0.070 (1,8)
	8563-0329-XX	5.625 (142,9)	0.062 (1,6)
	8563-0124-XX	5.700 (144,8)	0.080 (2,0)
	8563-0231-XX	5.735 (145,7)	0.103 (2,6)
	8563-0315-XX	5.858 (148,8)	0.070 (1,8)
	8563-0293-XX	5.875 (149,2)	0.040 (1,0)
	8563-0174-XX	5.900 (149,9)	0.070 (1,8)
	8563-0058-XX	5.930 (150,6)	0.150 (3,8)
	8563-0185-XX	6.000 (152,4)	0.103 (2,6)
	8563-0177-XX	6.100 (154,9)	0.080 (2,0)
	8563-0234-XX	6.312 (160,3)	0.070 (1,8)
	8563-0303-XX	6.793 (172,5)	0.119 (3,0)
	8563-0176-XX	7.020 (178,3)	0.080 (2,0)
	8563-0124-XX	7.090 (180,1)	0.065 (1,7)
	8563-0342-XX	7.322 (186,0)	0.103 (2,6)
	8563-0226-XX	7.491 (190,3)	0.070 (1,8)
	8563-0175-XX	7.500 (190,5)	0.125 (3,2)
	8563-0179-XX	7.750 (196,9)	0.103 (2,6)
	8563-0283-XX	8.563 (217,5)	0.103 (2,6)
	8563-0323-XX	8.750 (222,3)	0.250 (6,4)
	8563-0341-XX	9.196 (233,6)	0.103 (2,6)
	8563-0263-XX	9.370 (238,0)	0.103 (2,6)
	8563-0059-XX	9.612 (244,1)	0.070 (1,8)
	8563-0191-XX	9.737 (247,3)	0.103 (2,6)
	8563-0198-XX	9.904 (251,6)	0.062 (1,6)
	8563-0187-XX	9.984 (253,6)	0.139 (3,5)
	8563-0339-XX	10.303 (261,7)	0.103 (2,6)
	8563-0137-XX	10.412 (264,5)	0.125 (3,2)
	8563-0160-XX	10.483 (266,3)	0.139 (3,5)
	8563-0189-XX	10.660 (270,8)	0.103 (2,6)
	8563-0184-XX	10.680 (271,3)	0.103 (2,6)
	8563-0235-XX	11.567 (293,8)	0.150 (3,8)
	8563-0141-XX	12.016 (305,2)	0.125 (3,2)
	8563-0236-XX	12.350 (313,7)	0.150 (3,8)
	8563-0140-XX	12.812 (325,4)	0.125 (3,2)
	8563-0264-XX	13.800 (350,5)	0.103 (2,6)
	8563-0057-XX	13.960 (354,6)	0.150 (3,8)
	8563-0302-XX	14.685 (373,0)	0.119 (3,0)
	8563-0182-XX	24.190 (614,4)	0.080 (2,0)
	8563-0307-XX	26.280 (667,5)	0.112 (2,8)

O-rings with a diameter less than 3" (76,2 mm) will be molded. O-rings with a diameter of 3" (76,2 mm) or more may be molded or spliced.

Table 2. MIL-DTL-83528/013 Jam Nut Seals

Shell Size	Laird Technologies Part No.		Dimensions	
	MIL-DTL-38999/MIL-DTL-26482	MIL-DTL-81511	C	B
6	8563-0073-XX		0.551 (14,0)	0.070 (1,8)
8	8563-0074-XX		0.676 (17,2)	0.070 (1,8)
8		8563-0075-XX	0.739 (18,8)	0.070 (1,8)
9, 10	8563-0076-XX		0.801 (20,3)	0.070 (1,8)
9, 10		8563-0077-XX	0.864 (21,9)	0.070 (1,8)
11, 12	8563-0079-XX		0.989 (25,1)	0.070 (1,8)
13, 14	8563-0080-XX	8563-0080-XX	1.114 (28,3)	0.070 (1,8)
15, 16	8563-0089-XX	8563-0089-XX	1.239 (31,5)	0.070 (1,8)
17, 18	8563-0090-XX	8563-0090-XX	1.364 (34,6)	0.070 (1,8)
19, 20	8563-0095-XX		1.487 (37,8)	0.103 (2,6)
23, 24	8563-0096-XX		1.737 (44,1)	0.103 (2,6)

All dimensions shown are in inches (millimeters) unless otherwise specified.

## Flat Washer Gaskets

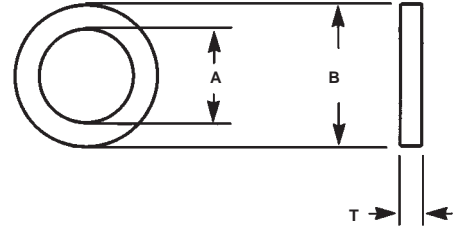
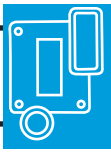


Table 3. MIL-DTL-83528 Series

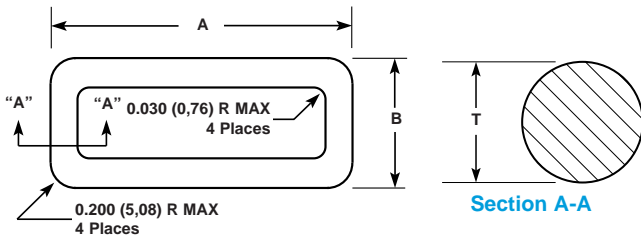
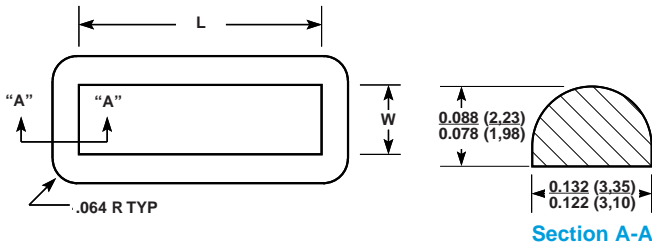
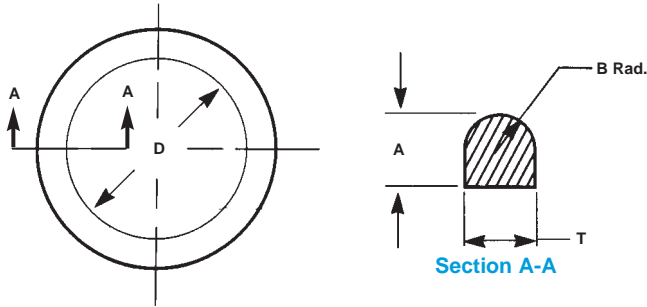
MIL-DTL-83528 Part No.	Laird Technologies Part No.	Dimensions		
		A	B	T
	8560-0490-XX	0.079 (2,0)	0.590 (15,0)	0.010 (0,3)
	8560-0231-XX	0.120 (3,0)	0.260 (6,6)	0.030 (0,8)
	8560-0234-XX	0.171 (4,3)	0.390 (9,9)	0.060 (1,5)
	8560-0406-XX	0.180 (4,6)	0.220 (5,6)	0.020 (0,5)
	8560-0364-XX	0.192 (4,9)	0.625 (15,9)	0.032 (0,8)
	8560-0233-XX	0.218 (5,5)	0.468 (11,9)	0.030 (0,8)
M83528/012X001	8560-0097-XX	0.250 (6,4)	0.625 (15,9)	0.032 (0,8)
M83528/012X002	8560-0142-XX	0.250 (6,4)	0.625 (15,9)	0.062 (1,6)
	8560-0158-XX	0.250 (6,4)	0.562 (14,3)	0.060 (1,5)
	8560-0229-XX	0.250 (6,4)	0.420 (10,7)	0.090 (2,3)
	8560-0277-XX	0.250 (6,4)	0.420 (10,7)	0.093 (2,4)
	8560-0435-XX	0.250 (6,4)	0.750 (19,1)	0.032 (0,8)
	8560-0139-XX	0.261 (6,6)	0.650 (16,5)	0.060 (1,5)
	8560-0052-XX	0.305 (7,7)	0.625 (15,9)	0.053 (1,3)
	8560-0096-XX	0.312 (7,9)	0.437 (11,1)	0.030 (0,8)
	8560-0299-XX	0.319 (8,1)	0.422 (10,7)	0.075 (1,9)
	8560-0242-XX	0.350 (8,9)	0.885 (22,5)	0.060 (1,5)
	8560-0157-XX	0.360 (9,1)	0.687 (17,5)	0.060 (1,5)
M83528/012X004	8560-0143-XX	0.375 (9,5)	0.750 (19,1)	0.062 (1,6)
M83528/012X003	8560-0098-XX	0.375 (9,5)	0.750 (19,1)	0.031 (0,8)
	8560-0331-XX	0.375 (9,5)	0.750 (19,1)	0.032 (0,8)
	8560-0444-XX	0.380 (9,7)	0.960 (24,4)	0.065 (1,7)
	8560-0200-XX	0.433 (11,0)	0.508 (12,9)	0.045 (1,1)
	8560-0217-XX	0.447 (11,4)	0.550 (14,0)	0.075 (1,9)
M83528/012X005	8560-0099-XX	0.500 (12,7)	0.656 (16,7)	0.031 (0,8)
M83528/012X007	8560-0100-XX	0.500 (12,7)	0.875 (22,2)	0.031 (0,8)
M83528/012X006	8560-0144-XX	0.500 (12,7)	0.656 (16,7)	0.062 (1,6)
M83528/012X008	8560-0145-XX	0.500 (12,7)	0.875 (22,2)	0.062 (1,6)
	8560-0330-XX	0.500 (12,7)	0.656 (16,7)	0.032 (0,8)
	8560-0311-XX	0.641 (16,3)	0.703 (17,9)	0.032 (0,8)
	8560-0443-XX	0.785 (19,9)	0.900 (22,9)	0.020 (0,5)
	8560-0505-XX	0.800 (20,3)	1.000 (25,4)	0.156 (4,0)
	8560-0453-XX	0.890 (22,6)	1.250 (31,8)	0.062 (1,6)
	8560-0156-XX	0.925 (23,5)	1.195 (30,4)	0.062 (1,6)
	8560-0126-XX	1.260 (32,0)	1.431 (36,3)	0.090 (2,3)
	8560-0319-XX	1.891 (48,0)	1.984 (50,4)	0.045 (1,1)

## Tolerances Flat Washer Gaskets (All Dimensions)

Dimensions	Tolerance
Under 0.101 (0,0 to 2,6)	± 0.005 (0,1)
0.101 to 0.200 (2,6 to 5,1)	± 0.010 (0,3)
0.201 to 0.500 (5,1 to 12,7)	± 0.015 (0,4)
Over 0.500 (12,7)	± 0.020 (0,5)



## Molded Waveguide Gaskets



## Tolerances "D" Section Profiles

Dimensions	Tolerance
Under 0.101 (2,6)	± 0.005 (0,1)
0.101 to 0.200 (2,6 to 5,1)	± 0.008 (0,2)
0.201 to 0.300 (5,1 to 7,6)	± 0.010 (0,3)
0.301 to 0.500 (7,6 to 12,7)	± 0.015 (0,4)
Over 0.500 (12,7)	± 0.020 (0,5)

Table 4. Circular "D" Section

MIL-DTL-83528 Part No.	Laird Technologies Part No.	Nominal Dimensions			
		A	B	D	T
M83528/013X002	8563-0126-XX	0.056 (1,4)	0.041 (1,0)	0.410 (10,4)	0.082 (2,1)
M83528/013X004	8563-0127-XX	0.048 (1,2)	Full Radius (14,9)	0.587 (14,9)	0.078 (2,0)
M83528/013X006	8563-0128-XX	0.125 (3,2)	Full Radius (22,5)	0.885 (22,5)	0.155 (3,9)
M83528/013X008	8563-0129-XX	0.065 (1,7)	0.049 (1,2)	1.122 (28,5)	0.099 (2,5)
M83528/013X011	8563-0131-XX	0.088 (2,2)	Full Radius (34,0)	1.340 (34,0)	0.095 (2,4)
M83528/013X012	8563-0130-XX	0.077 (2,0)	Full Radius (33,3)	1.310 (33,3)	0.115 (2,9)
M83528/013X014	8563-0132-XX	0.085 (2,2)	Full Radius (35,4)	1.392 (35,4)	0.095 (2,4)
M83528/013X017	8563-0133-XX	0.078 (2,0)	Full Radius (39,4)	1.550 (39,4)	0.105 (2,7)
M83528/013X036	8563-0134-XX	0.188 (4,8)	Full Radius (99,3)	3.910 (99,3)	0.240 (6,1)

Table 5. Rectangular "D" Section

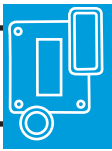
MIL-DTL-83528 Part No.	Laird Technologies Part No.	Width Dimensions		Length Dimensions	
		Min.	Max.	Min.	Max.
M83528/006X001	8563-0253-XX	0.285 (7,2)	0.295 (7,5)	0.983 (25,0)	0.993 (25,2)
M83528/006X002	8563-0254-XX	0.485 (12,3)	0.495 (12,6)	0.983 (25,0)	0.993 (25,2)
M83528/006X003	8563-0255-XX	0.619 (15,7)	0.629 (16,0)	1.243 (31,6)	1.243 (31,6)
M83528/006X004	8563-0256-XX	0.815 (20,7)	0.845 (21,5)	2.985 (75,8)	3.015 (76,6)
M83528/006X005	8563-0257-XX	1.325 (33,7)	1.355 (34,4)	5.265 (133,7)	5.295 (134,5)

Table 6. Rectangular "O" Section

MIL-DTL-83528 Part No.	Laird Technologies Part No.	Dimensions		
		A	B	T
M83528/013X013	8563-0248-XX	1.368 (34,7) ± 0.012 (0,3)	0.868 (22,0) ± 0.010 (0,3)	0.103 (2,6) ± 0.003 (0,1)
M83528/013X018	8563-0249-XX	1.616 (41,0) ± 0.015 (0,4)	0.991 (25,2) ± 0.010 (0,3)	0.103 (2,6) ± 0.003 (0,1)
M83528/013X023	8563-0250-XX	11.866 (301,4) ± 0.015 (0,4)	1.116 (28,3) ± 0.012 (0,3)	0.103 (2,6) ± 0.003 (0,1)
M83528/013X030	8563-0251-XX	2.449 (62,2) ± 0.020 (0,5)	1.449 (36,8) ± 0.013 (0,3)	0.139 (3,5) ± 0.004 (0,1)
M83528/013X037	8563-0252-XX	3.451 (87,7) ± 0.024 (0,6)	1.951 (49,6) ± 0.004 (0,1)	0.139 (3,5) ± 0.004 (0,1)

All dimensions shown are in inches (millimeters) unless otherwise specified.





## Rectangular Waveguide Gaskets

Figure 1.

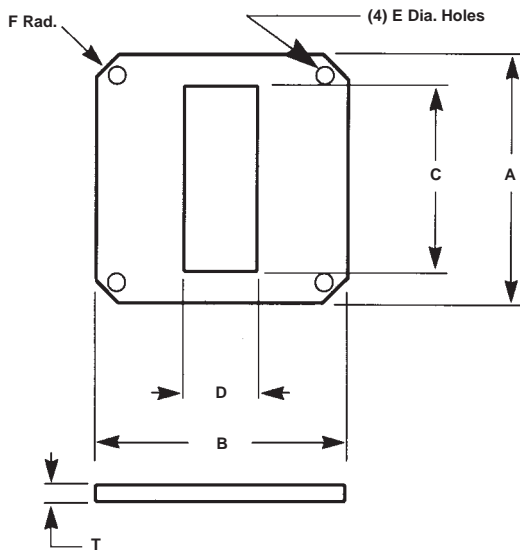


Figure 2.

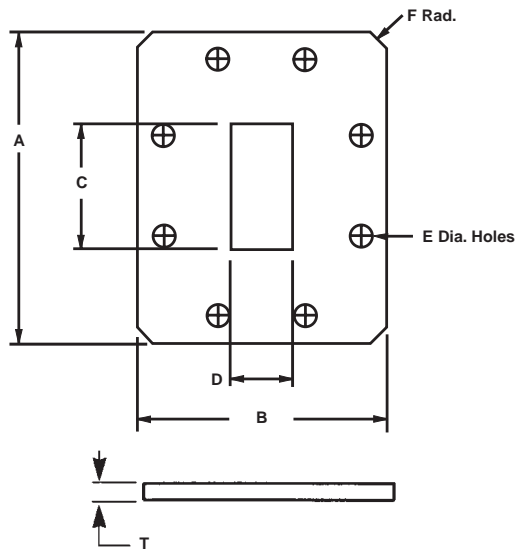
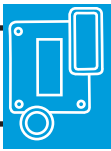


Table 7. Rectangular Waveguide Gaskets

MIL-DTL-83528	Laird Technologies	Dimensions						
Part No.	Part No.	A	B	C	D	E	T	F Radius
<b>Tolerance:</b>		± 0.015 (0,4)	± 0.015 (0,4)	± 0.015 (0,4)	± 0.015 (0,4)	± 0.010 (0,3)	± 0.003 (0,1)	± 0.010 (0,3)
M83528/013X001	8560-0104-XX Fig. 1	± 0.750 (19,1)	± 0.750 (19,1)	± 0.145 (3,7)	± 0.285 (7,2)	± 0.116 (2,9)	± 0.027 (0,7)	± 0.469 (11,9)
M83528/013X003	8560-0105-XX Fig. 1	0.875 (22,2)	0.875 (22,2)	0.175 (4,4)	0.425 (10,8)	0.116 (2,9)	0.027 (0,7)	0.563 (14,3)
M83528/013X005	8560-0106-XX Fig. 1	1.313 (33,4)	1.313 (33,4)	0.630 (16,0)	0.320 (8,1)	0.140 (3,6)	0.027 (0,7)	0.875 (22,2)
M83528/013X007	8560-0103-XX Fig. 1	1.496 (38,0)	1.496 (38,0)	0.760 (19,3)	0.385 (9,8)	0.155 (3,9)	0.027 (0,7)	0.450 (11,4)
M83528/013X009	8560-0107-XX Fig. 1	1.625 (41,3)	1.625 (41,3)	0.905 (23,0)	0.405 (10,3)	0.169 (4,3)	0.027 (0,7)	0.469 (11,9)
M83528/013X010	8560-0112-XX Fig. 2	1.594 (40,5)	2.094 (53,2)	0.405 (10,3)	0.905 (23,0)	0.169 (4,3)	0.027 (0,7)	0.250 (6,4)
M83528/013X015	8560-0108-XX Fig. 1	1.875 (47,6)	1.875 (47,6)	1.130 (28,7)	0.505 (12,8)	0.180 (4,6)	0.027 (0,7)	1.150 (29,2)
M83528/013X016	8560-0113-XX Fig. 2	1.750 (44,5)	2.500 (63,5)	0.505 (12,8)	1.130 (28,7)	0.171 (4,3)	0.027 (0,7)	0.250 (6,4)
M83528/013X020	8560-0114-XX Fig. 2	1.937 (49,2)	2.687 (68,3)	0.633 (16,1)	1.380 (35,1)	0.206 (5,2)	0.027 (0,7)	0.250 (6,4)
M83528/013X021	8560-0121-XX Fig. 2	1.531 (38,9)	2.281 (57,9)	0.632 (16,1)	1.382 (35,1)	0.150 (3,8)	0.027 (0,7)	0.125 (3,2)
M83528/013X024	8560-0115-XX Fig. 2	2.438 (61,9)	3.188 (81,0)	0.805 (20,4)	1.600 (40,6)	0.257 (6,5)	0.027 (0,7)	0.313 (8,0)
M83528/013X025	8560-0122-XX Fig. 2	1.750 (44,5)	2.500 (63,5)	0.800 (20,3)	1.600 (40,6)	0.160 (4,1) 0.150 (3,8)	0.027 (0,7)	0.125 (3,2)
M83528/013X027	8560-0116-XX Fig. 2	3.500 (88,9)	2.500 (63,5)	1.880 (47,8)	0.880 (22,4)	0.226 (5,7)	0.027 (0,7)	0.313 (8,0)
M83528/013X028	8560-0123-XX Fig. 2	1.764 (44,8)	2.781 (70,6)	0.882 (22,4)	1.882 (47,8)	0.156 (4,0) 0.141 (3,6)	0.027 (0,7)	0.125 (3,2)
M83528/013X031	8560-0117-XX Fig. 2	2.750 (69,9)	3.875 (98,4)	1.155 (29,3)	2.300 (58,4)	0.270 (6,9)	0.027 (0,7)	0.312 (7,9)
M83528/013X032	8560-0124-XX Fig. 2	2.000 (50,8)	3.156 (80,2)	1.555 (39,5)	2.300 (58,4)	0.150 (3,8)	0.027 (0,7)	0.125 (3,2)
M83528/013X034	8560-0118-XX Fig. 2	4.500 (114,3)	3.000 (76,2)	2.850 (72,4)	1.350 (34,3)	0.266 (6,8)	0.027 (0,7)	0.313 (8,0)
M83528/013X035	8560-0125-XX Fig. 2	3.884 (98,7)	2.344 (59,5)	2.850 (72,4)	1.350 (34,3)	0.172 (4,4) 0.188 (4,8)	0.027 (0,7)	0.125 (3,2)
M83528/013X038	8560-0119-XX Fig. 2	3.750 (95,3)	5.440 (138,2)	1.710 (43,4)	3.410 (86,6)	0.265 (6,7) 0.250 (6,4)	0.027 (0,7)	0.250 (6,4)
M83528/013X039	8560-0109-XX Fig. 2	3.750 (95,3)	5.438 (138,1)	1.710 (43,4)	3.410 (86,6)	0.266 (6,8)	0.027 (0,7)	0.250 (6,4)
M83528/013X040	8560-0110-XX Fig. 2	4.188 (106,4)	6.344 (161,1)	2.160 (54,9)	4.310 (109,5)	0.266 (6,8) 0.281 (7,1)	0.027 (0,7)	0.250 (6,4)
M83528/013X041	8560-0120-XX Fig. 2	6.344 (161,1)	4.188 (106,4)	4.310 (109,5)	2.160 (54,9)	0.266 (6,8)	0.027 (0,7)	0.250 (6,4)
M83528/013X042	8560-0111-XX Fig. 2	5.438 (138,1)	8.688 (220,7)	3.260 (82,8)	6.510 (165,4)	0.250 (6,4) 0.328 (8,3)	0.027 (0,7)	0.250 (6,4)

Note: Compound 98 is silicone material filled with Ag/Cu and expanded metal. See Material Compounds chart on pages 14 – 17 for compound properties.

All dimensions shown are in inches (millimeters) unless otherwise specified.



# ElectroSeal Conductive Elastomer Fabricated Components

The waveguide gaskets listed in the Waveguide Gasket Selection Guide will fit standard UG, CPR and CMR flanges. The letters (A, B, C, D, E) shown in the "Gasket Config." column correspond to the MIL-DTL-83528/013 part configurations as follows:

Type A — Square & Rectangular Die-Cut Gaskets  
 Type B — Circular Die-Cut Gaskets  
 Type C — Molded Rectangular "O" Cross Section  
 Type D — Molded Circular "O" Cross Section  
 Type E — Molded Circular "D" Cross Section

**Table 8. Waveguide Gasket Selection Guide**

Frequency Range GHz	Band	EIA Waveguide Size	Designation MIL-W	Flange Description			Flange Type	Gasket Config.	Laird Technologies Part No.	MIL-DTL-83528/013 Page No.
				UG	CPR	CMR				
26.5 - 40.0	Ka	WR28	RG-96U (Silver)	UG-599/U			Cover	A	8560-0104-XX	001 (1)
				UG-600A/U			Choke	E	8563-0126-XX	002
18.0 - 26.5	K	WR42	RG-53/U (Brass) RG-121/U (Aluminum)	UG-595/U			Cover	A	8560-0105-XX	003 (1)
				UG-597/U			Choke	E	8563-0127-XX	004
12.4 - 18.0	Ku	WR62	RG-91/U (Brass) RG-107/U (Silver)	UG-596A/U			Cover	A	8560-0106-XX	005 (1)
				UG-598A/U			Choke	E	8563-0128-XX	006
10.0 - 15.0		WR75		UG			Cover	A	8560-0103-XX	007
					CPR-75F		Choke	E	8563-0129-XX	008
8.2 - 12.4	X	WR90	RG-52/U (Brass) RG-67/U (Aluminum)	UG-39/U			Cover	A	8560-0107-XX	009
				UG-135/U	CPR-90F		Flat Contact	A	8560-0112-XX	010 (2)
				UG-1736/U			Choke	E	8563-0131-XX	011
				UG-40A/U			Choke	E	8563-0130-XX	012
7.0 - 11.0		WR102		UG-1360/U	CPR-90G		Contact	C	8563-0248-XX	013
				UG-1361/U			Choke	E	8563-0108-XX	014
7.05 - 10.0	X1	WR112	RG-51/U (Brass) RG-68/U (Aluminum)	UG-1494/U			Cover	A	8560-0108-XX	015
				UG-51/U	CPR-112F		Flat Contact	A	8560-0113-XX	016
				UG-138/U			Choke	E	8563-0133-XX	017
				UG-1734/U			Contact	C	8563-0249-XX	018
5.85 - 8.2	Xb	WR137	RG-50/U (Brass) RG-108/U (Aluminum)	UG-1359/U	CPR-112G		Contact	C	8563-0249-XX	018
				UG-344/U			Cover	B	—	019
				UG-138/U	CPR-137F		Flat Contact	A	8560-0114-XX	020 (1)
				UG-1732/U		CMR-137	Flat Contact	A	8560-0121-XX	021(1)
4.9 - 7.05		WR159		UG-1733/U			Choke	D	8560-0246-XX	022
				UG-343B/U			Contact	C	8563-0250-XX	023
				UG-440B/U	CPR-137G		Flat Contact	A	8560-0115-XX	024 (1)
				UG-1356/U			Flat Contact	A	8560-0122-XX	025 (1)
3.95 - 5.85	C	WR187	RG-49/U (Brass) RG-95/U (Aluminum)	UG-1357/U	CPR-159F		Flat Contact	A	8560-0115-XX	024 (1)
				UG-1730/U		CMR-159	Flat Contact	A	8560-0122-XX	025 (1)
				UG-1731/U			Cover	B	—	026
				UG-149A/U	CPR-187F		Flat Contact	A	8560-0116-XX	027 (1)
3.30 - 4.90		WR229		UG-407/U			Flat Contact	A	8560-0116-XX	027 (1)
				UG-1728/U		CMR-187	Flat Contact	A	8560-0123-XX	028 (1)
				UG-1729/U			Choke	D	8560-0247-XX	029
				UG-148C/U	CPR-187G		Contact	C	8563-0251-XX	030
2.6 - 3.95	S	WR284	RG-48/U (Brass) RG-75/U (Aluminum)	UG-1352/U	CPR-229F		Flat Contact	A	8560-0117-XX	031 (1)
				UG-1353/U		CMR-229	Flat Contact	A	8560-0124-XX	032 (1)
				UG-1726/U			Cover	B	—	033
				UG-1727/U			Flat Contact	A	8560-0118-XX	034 (1)
2.2 - 3.3	W	WR340	RG-112/U (Brass) RG-112/U (Aluminum)	UG-53/U			Cover	B	—	033
				UG-584/U	CPR-248F		Flat Contact	A	8560-0118-XX	034 (1)
				UG-1724/U		CMR-284	Flat Contact	A	8560-0125-XX	035 (1)
				UG-1725/U			Choke	E	8563-0134-XX	036
1.7 - 2.6	L	WR650	RG-69/U (Brass) RG-103/U (Aluminum)	UG-54B/U			Choke	E	8563-0134-XX	036
				UG-585A/U	CPR-284G		Contact	C	8563-0252-XX	037
				UG-1348/U			Flat Contact	A	8560-0119-XX	038 (1)
				UG-1349/U			Flat Contact	A	8560-0109-XX	039 (1)
1.12 - 1.7		WR650	RG-69/U (Brass) RG-103/U (Aluminum)	UG-533/U			Flat Contact	A	8560-0119-XX	038 (1)
				UG-554/U	CPR-340F		Flat Contact	A	8560-0109-XX	039 (1)
1.7 - 2.6	W	WR430	RG-104/U (Brass) RG-105/U (Aluminum)	UG-435A/U			Flat Contact	A	8560-0110-XX	040 (1)
				UG-437A/U	CPR-430F		Flat Contact	A	8560-0120-XX	041 (1)
1.12 - 1.7	L	WR650	RG-69/U (Brass) RG-103/U (Aluminum)	UG-417A/U			Flat Contact	A	8560-0111-XX	042 (1)
				UG-418A/U			Flat Contact	A	8560-0111-XX	042 (1)

Refer to page 31, Figures 1 and 2 for flange design.

All dimensions shown are in inches (millimeters) unless otherwise specified.