



Circular Waveguide Sizes

Frequency Band	Frequency Range		Circular Waveguide Diameter, Inches (mm)	Cover Flange (Brass) MIL-F- 3922 UG	Flange Type
X	LOW	8.2-9.97	1.094 (27.79)	53-001 UG-39/U	Square
	MID	8.5-11.6	0.938 (23.83)		
	HIGH	9.97-12.4	0.797 (20.24)		
Ku	LOW	12.4-15.9	0.688 (17.48)	53-005 UG-1666/U	Square
	MID	13.4-18.0	0.594 (15.08)		
	HIGH	15.9-18.0	0.500 (12.70)		
K	LOW	17.5-20.5	0.455 (11.56)	54-001 UG-595/U	Square
	MID	20-24.5	0.396 (10.06)		
	HIGH	24-26.5	0.328 (8.33)		
Ka	LOW	26.5-33	0.315 (8.00)	54-003 UG-595/U	Square
	MID	33-38.5	0.250 (6.35)		
	HIGH	38.5-40	0.219 (5.56)		
Q	LOW	33-38.5	0.250 (6.35)	67B-006 UG-383/U	Round
	MID	38.5-43	0.219 (5.56)		
	HIGH	43-50	0.188 (4.78)		
U	LOW	40-43	0.210 (5.33)	67B-007 UG-383/U-M	Round
	MID	43-50	0.188 (4.78)		
	HIGH	50-60	0.165 (4.19)		
V	LOW	50-58	0.165 (4.19)	67B-008 UG-385/U	Round
	MID	58-68	0.141 (3.58)		
	HIGH	68-75	0.125 (3.18)		
E	LOW	60-66	0.136 (3.45)	67B-009 UG-387/U	Round
	MID	66-82	0.125 (3.18)		
	HIGH	82-90	0.094 (2.39)		
W	LOW	75-88	0.112 (2.84)	67B-010 UG-387/U-M	Round
	HIGH	88-110	0.094 (2.39)		
F	LOW	90-115	0.089 (2.26)	- UG-387/U-M	Round
	HIGH	115-140	0.075 (1.91)		
D	LOW	110-140	0.073 (1.85)	- UG-387/U-M	Round
	HIGH	140-160	0.059 (1.50)		
G	LOW	140-180	0.058 (1.47)	- UG-387/U-M	Round
	HIGH	180-220	0.045 (1.14)		
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Coax Connectors

Connector Type	Frequency Range (GHz)	WiseWave's Designations	
N	DC to 18.0	NF – Female Connector	NM – Male Connector
7mm or APC-7	DC to 18.0	7F– Female Connector	7M – Male Connector
SMA	DC to 18.0	SF – Female Connector	SM – Male Connector
Super SMA	DC to 27.0	SF – Female Connector	SM – Male Connector
3.5 mm	DC to 26.5	3F – Female Connector	3M – Male Connector



Connector Type	Frequency Range (GHz)	WiseWave's Designations	
2.92 mm or K	DC to 40.0	KF – Female Connector	KM – Male Connector
2.4 mm	DC to 50.0	2F – Female Connector	2M – Male Connector
1.85 mm or V	DC to 65.0	VF – Female Connector	VM – Male Connector
1mm	DC to 110.0	1F – Female Connector	1M – Male Connector