



2.4mm Series Connectors (DC~50GHz)

MicrowaveTown 2.4mm connectors are 50Ω precision connectors. They are designed with excellent characteristics over the full frequency range up to 50GHz. 2.4mm connectors are mechanically compatible with 1.85mm connectors.

Specifications

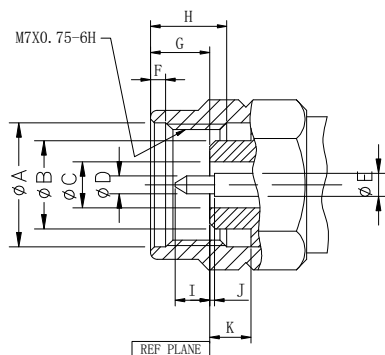
Impedance: 50Ω	
Frequency: DC-50GHz	
VSWR:	
DC-50GHz....	1.15:1 (max)
Contact Resistance: Center Contact≤3.0mΩ	
Housing≤2.0mΩ	
Insulation Resistance: ≥3000MΩ	
Dielectric Withstanding Voltage: 750V	
Durability: 500 Cycles	
Temperature Range: -55℃~+165℃	

Material / Finishing

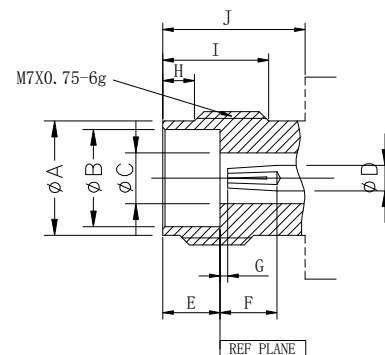
Housing: Stainless Steel SU303	Polished/Passivated
Center Contact: Beryllium Copper	
Gold plated(MIL-G-45204)	
Insulators: PEI or PEI&PTFE	

Interfaces: PER IEEE STD 287-2007

Interface Dimensions



2.4mm Male				
	mm		Inch	
	Min	Max	Min	Max
A	7.01	7.11	0.276	0.280
B	4.72	4.75	0.186	0.187
C	2.39	2.41	0.094	0.095
D	0.50	0.52	0.0196	0.0206
E	1.03	1.05	0.0405	0.0415
F	0.51	0.76	0.020	0.030
G	1.85	2.67	0.073	0.105
H	4.37	4.65	0.172	0.183
I	1.35	1.45	0.053	0.057
J	—	0.08	—	0.003
K	3.40	3.51	0.134	0.138

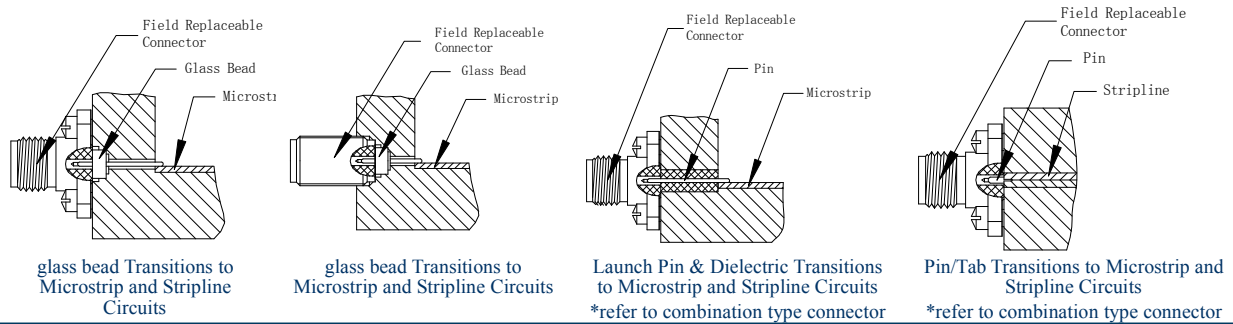


2.4mm Female				
	mm		Inch	
	Min	Max	Min	Max
A	5.79	5.89	0.228	0.232
B	4.77	4.80	0.1878	0.1888
C	2.39	2.41	0.094	0.095
D	1.03	1.05	0.0406	0.0414
E	3.00	3.10	0.118	0.122
F	2.65	—	0.1043	—
G	—	0.08	—	0.003
H	1.37	1.63	0.054	0.064
I	4.80	5.05	0.189	0.199
J	6	—	0.2362	—



❖ 2.4mm Replaceable Connectors

➤ Product Application



➤ Glass Bead Commonly Used Size

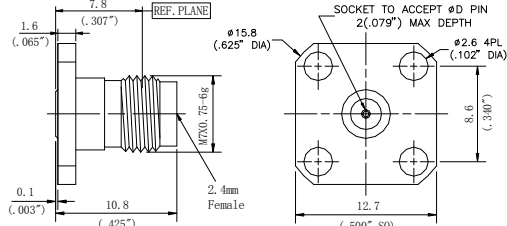
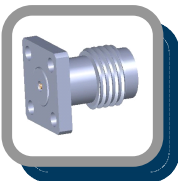
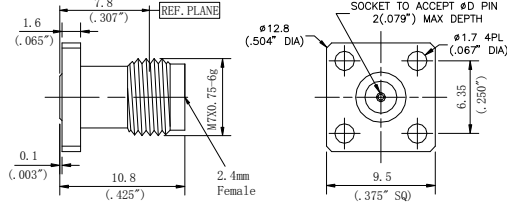
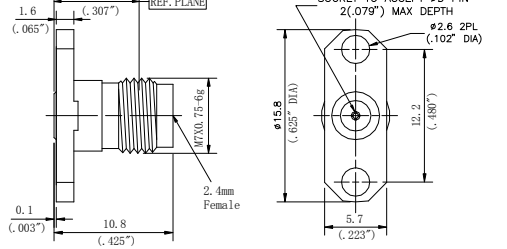
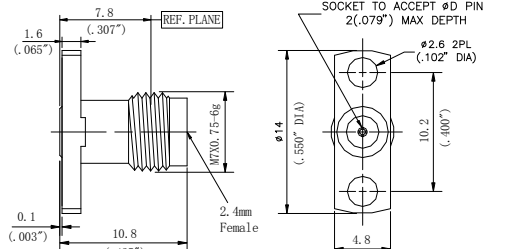
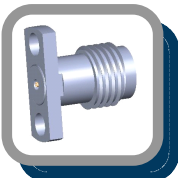
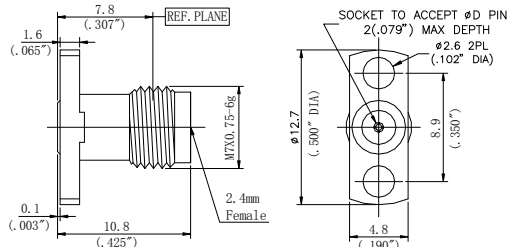
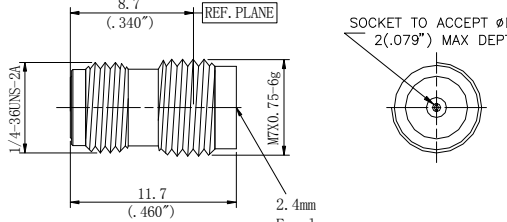
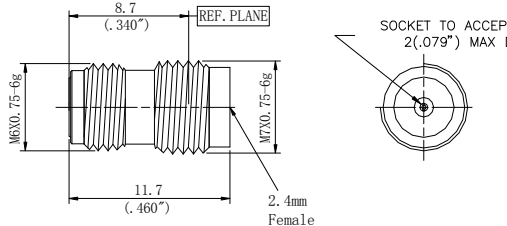
Commonly used size (recommended)			
d	0.23mm 0.009"	0.30mm 0.012"	0.51mm 0.020"
D	1.73mm 0.068"	1.93mm 0.076"	4.01mm 0.158"
L	1.40mm 0.055"	1.40mm 0.055"	1.52mm 0.06"
L1	A variety of sizes available		
L2	A variety of sizes available		

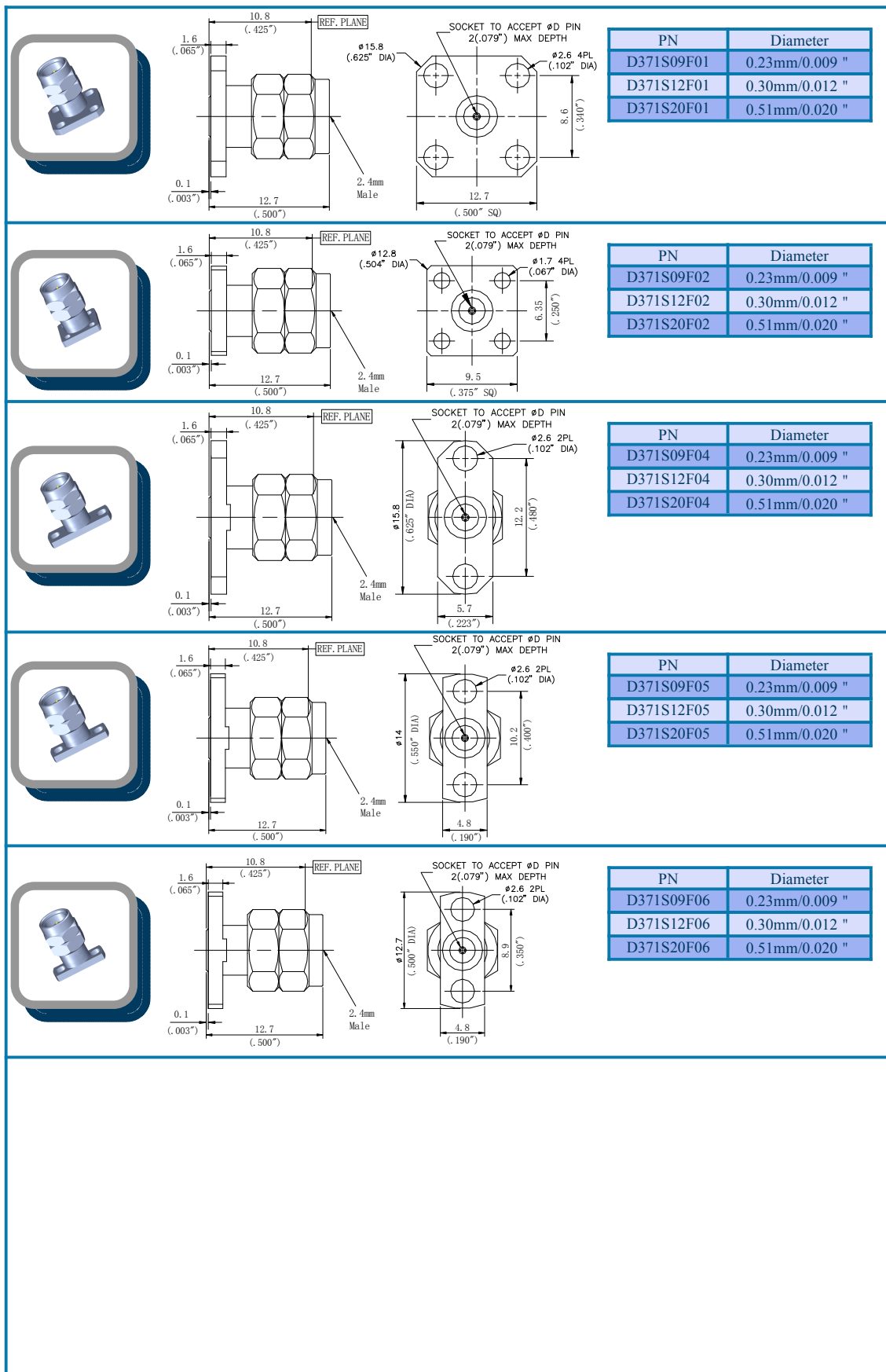
*Note: both ends of L1/L2 can insert into connector, depth less than 2mm

➤ Glass Bead Installation Dimension (FYI)

	Pin diameter	0.23mm 0.009"	0.30mm 0.012"	0.51mm 0.020"
	A	Glass bead dimension D&L		
	B			
	C	0.15-0.20mm 0.006-0.008"	0.06-0.09mm 0.0025-0.0035"	0.23-0.25mm 0.009-0.010"
	D	0.77-0.82mm 0.0302-0.0322"	1.65-1.70mm 0.065-0.067"	3.15-3.20mm 0.124-0.126"
	E	This is 50 ohms transmission line, In accordance with pin diameter conversion, E=pin diameter*2.3		
	F	Solder capture slot, common dimension is F=A+1mm		
	G	Solder capture slot, common dimension is 0.5mm		

*Note: C/D structure is optional if processing precision cannot guarantee

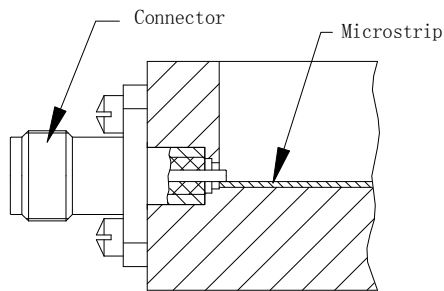
		<table><tr><th>PN</th><th>Diameter</th></tr><tr><td>D370S09F01</td><td>0.23mm/0.009 "</td></tr><tr><td>D370S12F01</td><td>0.30mm/0.012 "</td></tr><tr><td>D370S20F01</td><td>0.51mm/0.020 "</td></tr></table>	PN	Diameter	D370S09F01	0.23mm/0.009 "	D370S12F01	0.30mm/0.012 "	D370S20F01	0.51mm/0.020 "
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D370S20F01	0.51mm/0.020 "									
		<table><tr><th>PN</th><th>Diameter</th></tr><tr><td>D370S09F02</td><td>0.23mm/0.009 "</td></tr><tr><td>D370S12F02</td><td>0.30mm/0.012 "</td></tr><tr><td>D370S20F02</td><td>0.51mm/0.020 "</td></tr></table>	PN	Diameter	D370S09F02	0.23mm/0.009 "	D370S12F02	0.30mm/0.012 "	D370S20F02	0.51mm/0.020 "
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D370S20F05	0.51mm/0.020 "									
		<table><tr><th>PN</th><th>Diameter</th></tr><tr><td>D370S09F06</td><td>0.23mm/0.009 "</td></tr><tr><td>D370S12F06</td><td>0.30mm/0.012 "</td></tr><tr><td>D370S20F06</td><td>0.51mm/0.020 "</td></tr></table>	PN	Diameter	D370S09F06	0.23mm/0.009 "	D370S12F06	0.30mm/0.012 "	D370S20F06	0.51mm/0.020 "
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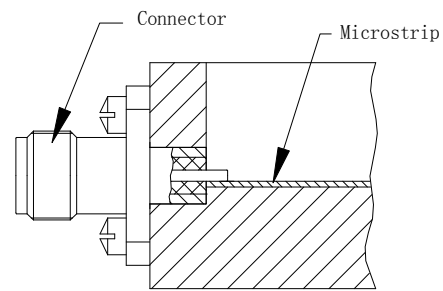


✧ 2.4mm Receptacle(Round Contact) Connectors

➤ Product Application

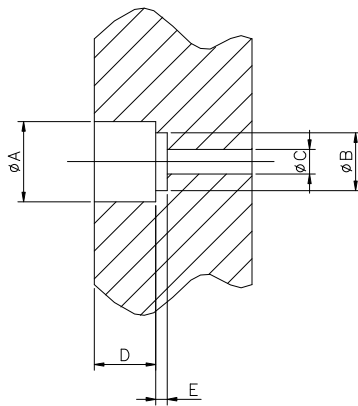


Project 1—SWR matching



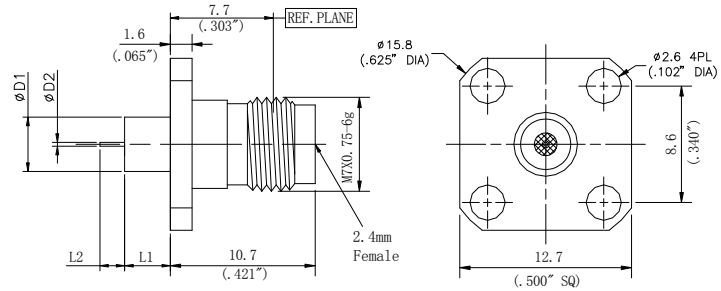
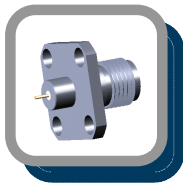
Project 2—through hole

➤ Installation Dimension (project 1—SWR matching structure, FYI)

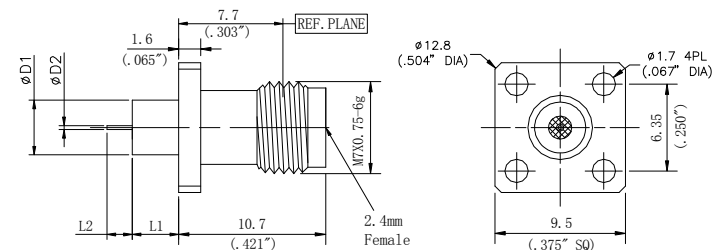
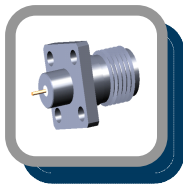


Connector PN	D370M0403F**	D370M0503F**
A	4.00-4.02mm 0.157-0.159"	4.00-4.02mm 0.157-0.158"
B	0.81-0.83mm 0.032-0.033"	0.81-0.83mm 0.032-0.033"
C	0.68-0.70mm 0.027-0.028"	0.68-0.70mm 0.027-0.028"
D	1.36-1.40mm 0.054-0.055"	2.96-3.00mm 0.117-0.118"
E	0.09-0.11mm 0.0036-0.0044"	0.09-0.11mm 0.0036-0.0044"

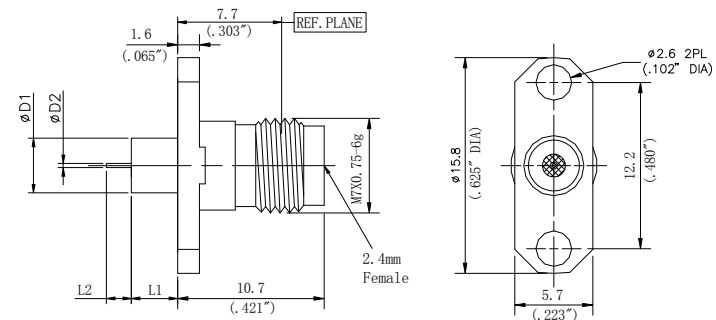
*Note: D should be shorter than metal contact ring. Make the front end of metal contact can be tightly stick on the internal surface to ensure better VSWR.



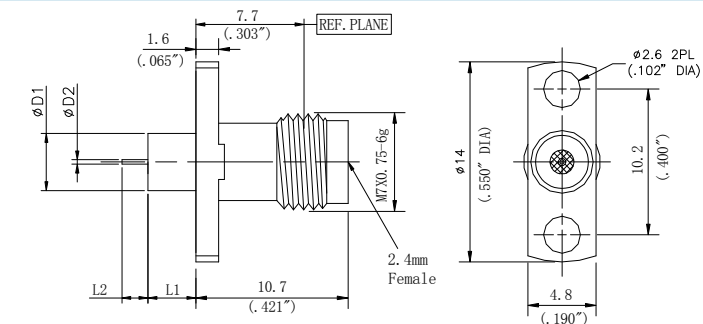
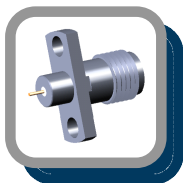
PN	D1	D2	L1	L2
D370M0403F01	4mm/0.158 "	0.3mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370M0503F01	4mm/0.158 "	0.3mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "



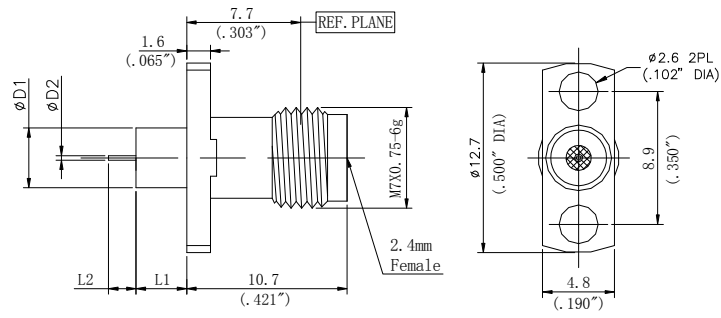
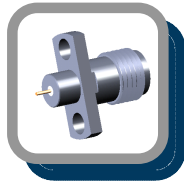
PN	D1	D2	L1	L2
D370M0403F02	4mm/0.158 "	0.3mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370M0503F02	4mm/0.158 "	0.3mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "



PN	D1	D2	L1	L2
D370M0403F04	4mm/0.158 "	0.3mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370M0503F04	4mm/0.158 "	0.3mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "



PN	D1	D2	L1	L2
D370M0403F05	4mm/0.158 "	0.3mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370M0503F05	4mm/0.158 "	0.3mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "

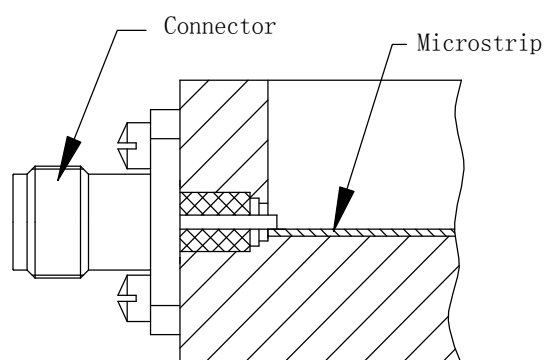


PN	D1	D2	L1	L2
D370M0403F06	4mm/0.158 "	0.3mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370M0503F06	4mm/0.158 "	0.3mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "

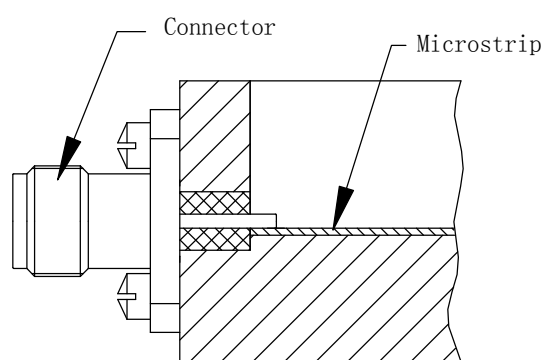


✧ 2.4mm Receptacle(Exposed Teflon) Connectors

➤ Product Application

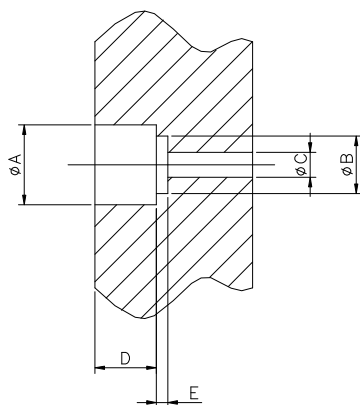


Project 1—SWR matching

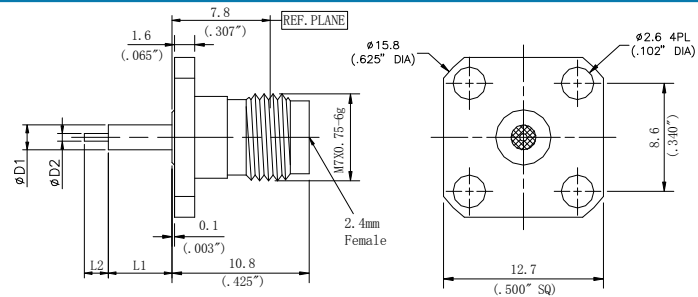
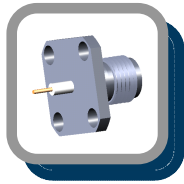


Project 2—through hole

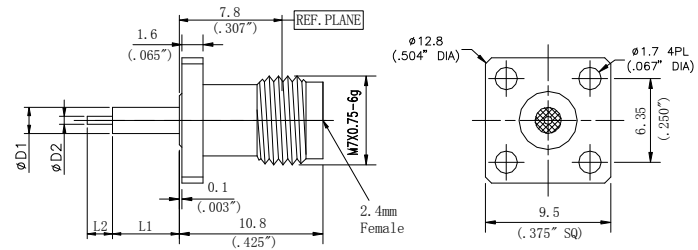
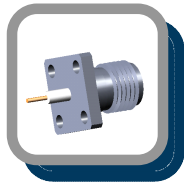
➤ Installation Dimension (project 1—SWR matching structure, FYI)



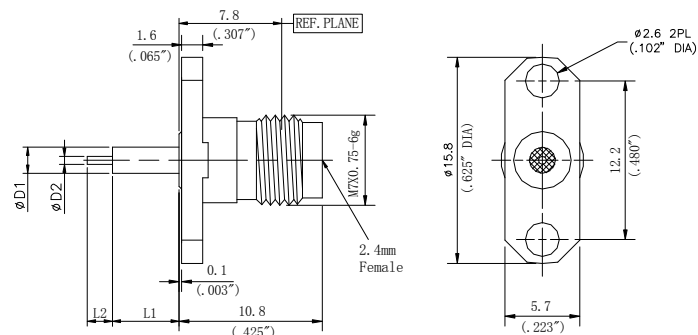
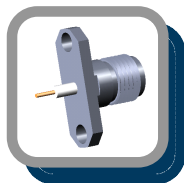
Connector PN	D370P0403F**	D370P0503F**
A	1.67-1.69mm 0.066-0.067"	1.67-1.69mm 0.066-0.067"
B	0.81-0.83mm 0.032-0.033"	0.81-0.83mm 0.032-0.033"
C	0.68-0.70mm 0.027-0.028"	0.68-0.70mm 0.027-0.028"
D	1.40-1.42mm 0.055-0.056"	3.00-3.02mm 0.118-0.119"
E	0.09-0.11mm 0.0036-0.0044"	0.09-0.11mm 0.0036-0.0044"



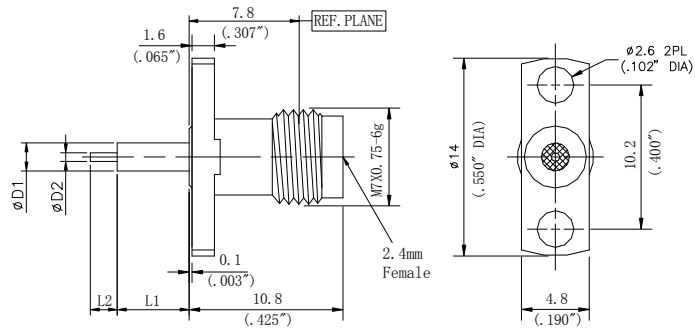
PN	D1	D2	L1	L2
D370P0403F01	1.67mm/0.066 "	0.3mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370P0503F01	1.67mm/0.066 "	0.3mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "
D370P0605F01	2.0mm/0.078 "	0.61mm/0.024 "	6.35mm/0.250 "	1.27mm/0.05 "



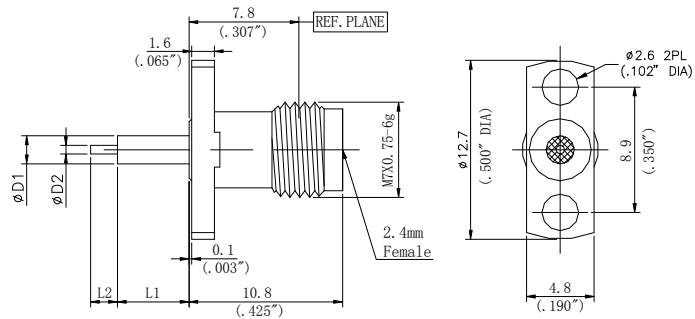
PN	D1	D2	L1	L2
D370P0403F02	1.67mm/0.066 "	0.03mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370P0503F02	1.67mm/0.066 "	0.03mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "
D370P0605F02	2.0mm/0.078 "	0.61mm/0.024 "	6.35mm/0.250 "	1.27mm/0.05 "



PN	D1	D2	L1	L2
D370P0403F04	1.67mm/0.066 "	0.03mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370P0503F04	1.67mm/0.066 "	0.03mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "
D370P0605F04	2.0mm/0.078 "	0.61mm/0.024 "	6.35mm/0.250 "	1.27mm/0.05 "



PN	D1	D2	L1	L2
D370P0403F05	1.67mm/0.066 "	0.03mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370P0503F05	1.67mm/0.066 "	0.03mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "
D370P0605F05	2.0mm/0.078 "	0.61mm/0.024 "	6.35mm/0.250 "	1.27mm/0.05 "

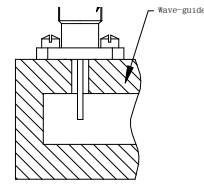
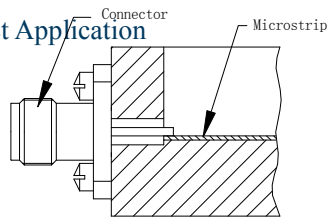


PN	D1	D2	L1	L2
D370P0403F06	1.67mm/0.066 "	0.03mm/0.012 "	1.4mm/0.055 "	1.5mm/0.059 "
D370P0503F06	1.67mm/0.066 "	0.03mm/0.012 "	3mm/0.118 "	1.5mm/0.059 "
D370P0605F06	2.0mm/0.078 "	0.61mm/0.024 "	6.35mm/0.250 "	1.27mm/0.05 "



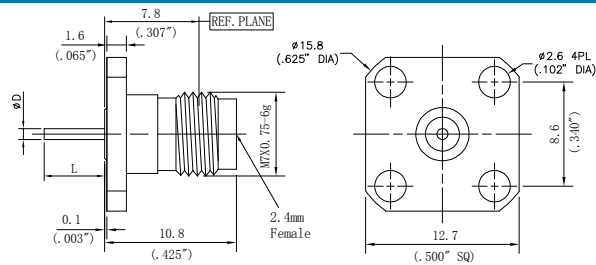
✧ 2.4mm Receptacle(Blunt Post Contact) Connectors

➤ Product Application

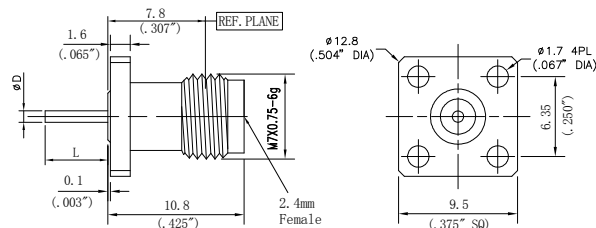
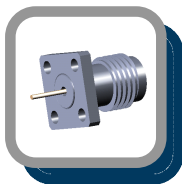


Project 1-stripline

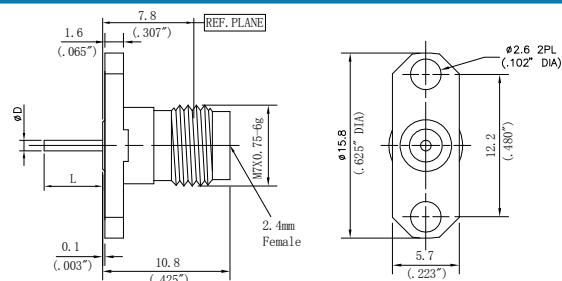
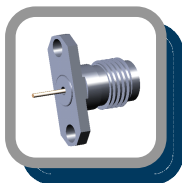
Project 2-waveguide to coaxial



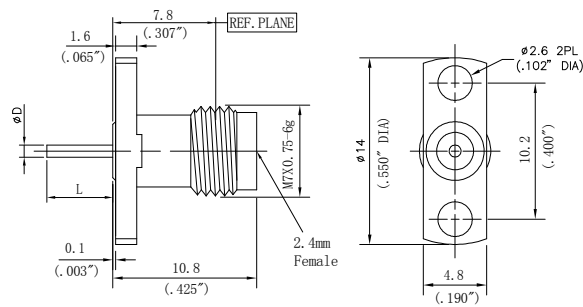
PN	D	L
D370D29F01-354	0.75mm/0.029 "	9mm/0.354 "
D370D34F01-344	0.86mm/0.034 "	8.75mm/0.344 "
D370D39F01-216	1mm/0.04 "	5.5mm/0.216 "
D370D41F01-250	1.04mm/0.041 "	6.34mm/0.250 "
D370D47F01-118	1.2mm/0.047 "	3mm/0.118 "



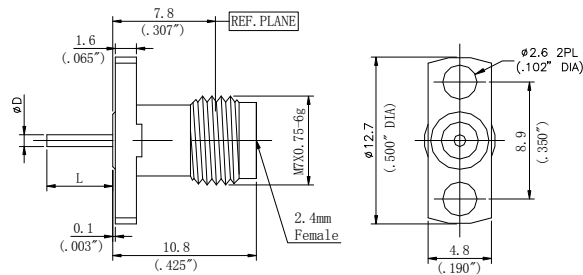
PN	D	L
D370D29F02-354	0.75mm/0.029 "	9mm/0.354 "
D370D34F02-344	0.86mm/0.034 "	8.75mm/0.344 "
D370D39F02-216	1mm/0.04 "	5.5mm/0.216 "
D370D41F02-250	1.04mm/0.041 "	6.34mm/0.250 "
D370D47F02-118	1.2mm/0.047 "	3mm/0.118 "



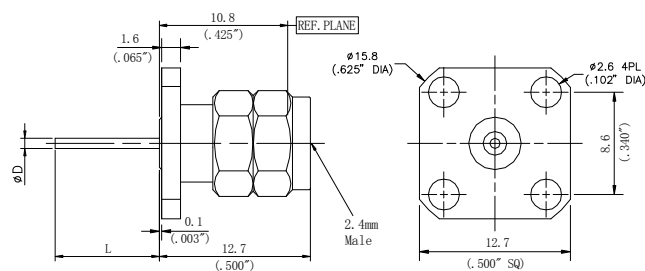
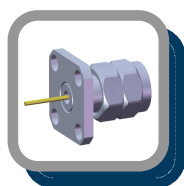
PN	D	L
D370D29F04-354	0.75mm/0.029 "	9mm/0.354 "
D370D34F04-344	0.86mm/0.034 "	8.75mm/0.344 "
D370D39F04-216	1mm/0.04 "	5.5mm/0.216 "
D370D41F04-250	1.04mm/0.041 "	6.34mm/0.250 "
D370D47F04-118	1.2mm/0.047 "	3mm/0.118 "



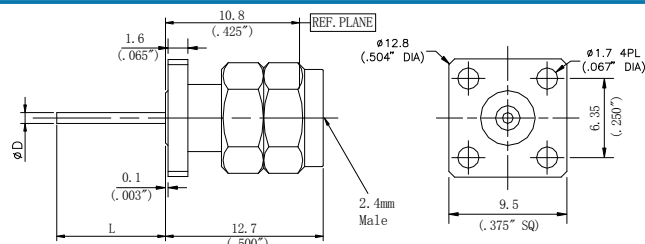
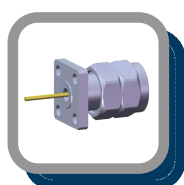
PN	D	L
D370D29F05-354	0.75mm/0.029 "	9mm/0.354 "
D370D34F05-344	0.86mm/0.034 "	8.75mm/0.344 "
D370D39F05-216	1mm/0.04 "	5.5mm/0.216 "
D370D41F05-250	1.04mm/0.041 "	6.34mm/0.250 "
D370D47F05-118	1.2mm/0.047 "	3mm/0.118 "



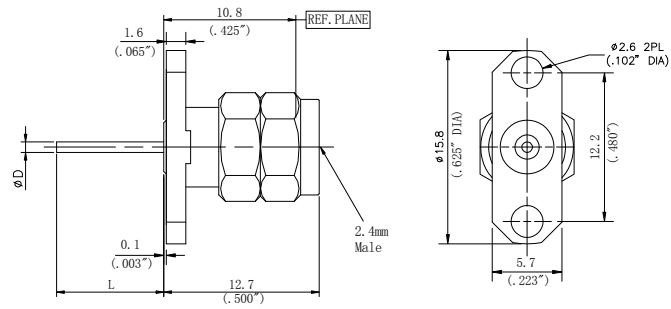
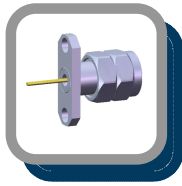
PN	D	L
D370D29F06-354	0.75mm/0.029 "	9mm/0.354 "
D370D34F06-344	0.86mm/0.034 "	8.75mm/0.344 "
D370D39F06-216	1mm/0.04 "	5.5mm/0.216 "
D370D41F06-250	1.04mm/0.041 "	6.34mm/0.250 "
D370D47F06-118	1.2mm/0.047 "	3mm/0.118 "



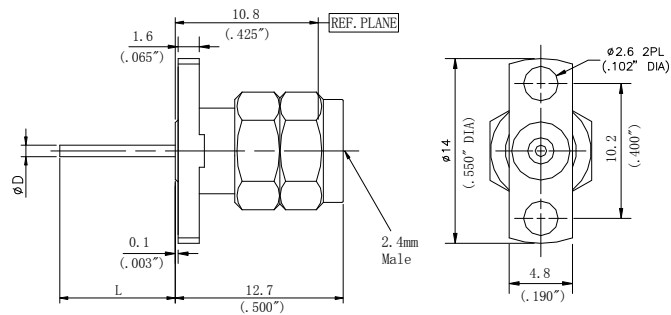
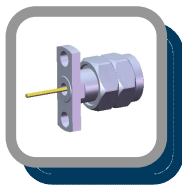
PN	D	L
D371D34F01-344	0.86mm/0.034 "	8.75mm/0.344 "



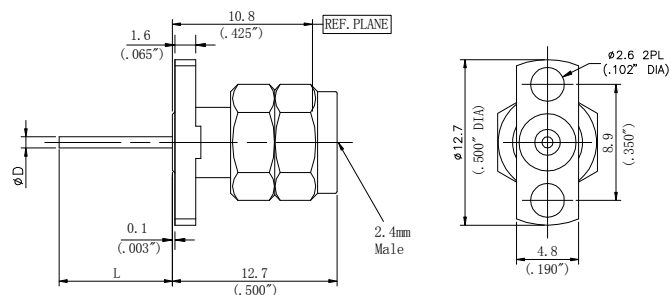
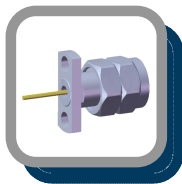
PN	D	L
D371D34F02-344	0.86mm/0.034 "	8.75mm/0.344 "



PN	D	L
D371D34F04-344	0.86mm/0.034 "	8.75mm/0.344 "



PN	D	L
D371D34F05-344	0.86mm/0.034 "	8.75mm/0.344 "



PN	D	L
D371D34F06-344	0.86mm/0.034 "	8.75mm/0.344 "