



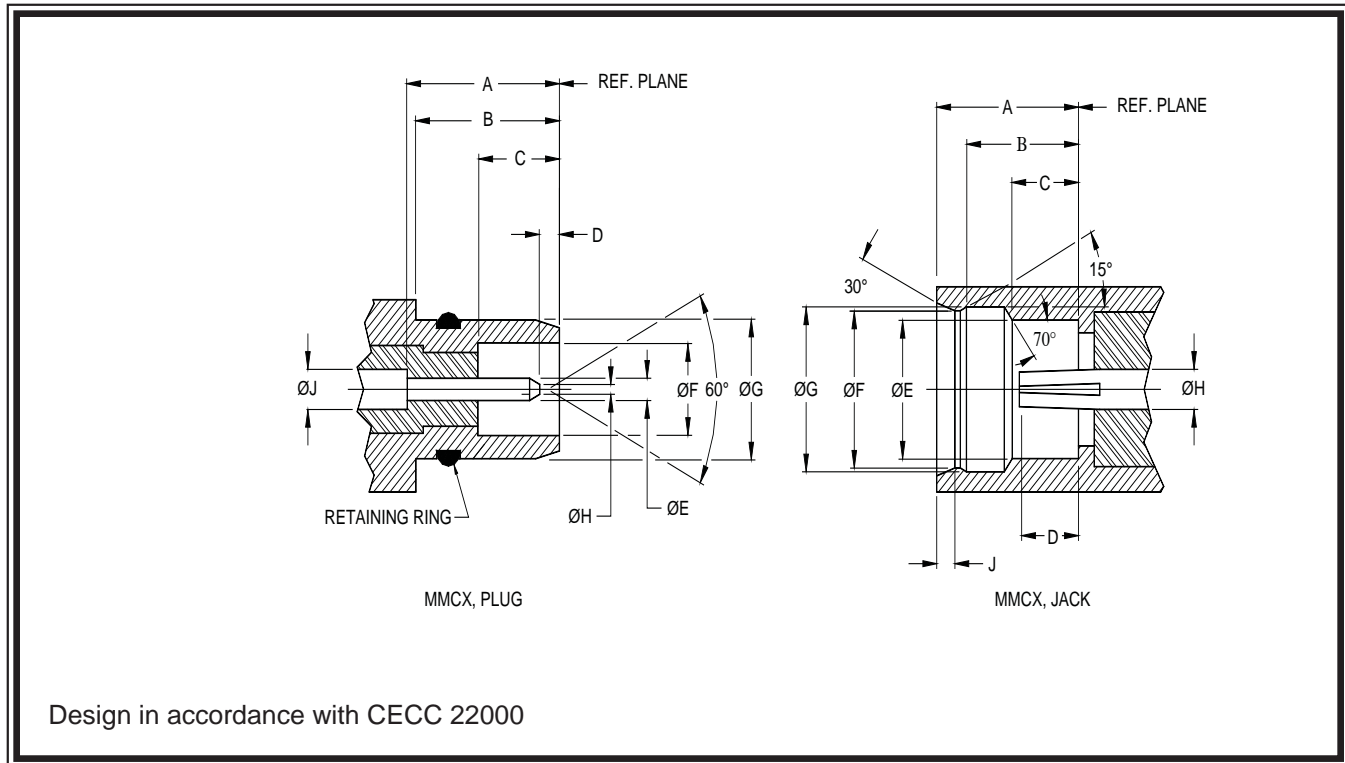
mmcx



www.dynawave.com

dynawave
INCORPORATED

mmcx • interface dimensions



male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	-----	-----	.124	3.15
B	.106	2.70	-----	-----
C	.057	1.45	-----	-----
D	.000	0.00	.010	0.25
E	.015	0.38	.017	0.42
F	.062	1.58	.064	1.62
G	-----	-----	.094	2.40
H	-----	-----	.008	0.20
J	.026	0.68	.030	0.76
K	-----	-----	-----	-----
L	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.102	2.60	-----	-----
B	.091	2.30	.092	2.34
C	.062	1.58	.064	1.63
D	.035	0.89	.047	1.20
E	.095	2.41	-----	-----
F	.113	2.88	.114	2.90
G	.118	3.00	.120	3.04
H	.026	0.66	.032	0.76
J	-----	-----	.009	0.23
K	-----	-----	-----	-----
L	-----	-----	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .017 / .015 Dia. inches (0.43 / 0.38) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inchs.
4. These dimensions are subject to change according to the latest revisions of CECC 22000.

Specifications are subject to change without notice

mmcX specifications

The specifications below are general specifications for all MMCX connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

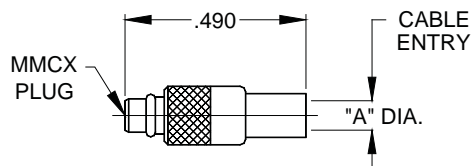
In the event of any conflict between these specifications and General Specification CECC 22220 these specifications shall govern. These specifications are subject to change according to the latest revision of CECC 22220.

REQUIREMENT	SPECIFICATIONS
GENERAL	
Material	Brass per ASTM B16, Temper H02, Alloy C36000. Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL	
Insulation Resistance	The insulation resistance shall not be less than 1,000 megohms
Dielectric Withstanding Voltage	The magnitude of the test voltage shall be 500 volts rms at sea level
RF High Potential Withstanding Voltage	The RF high potential withstanding voltage is 500 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	The center contact resistance drop shall not exceed 5.0 milliohms Max. and the outer contact resistance drop shall not exceed 2.5 milliohms.
Voltage Standing Wave Ratio (VSWR)	See applicable connector specifications.
RF Leakage	See applicable connector specifications.
Insertion Loss	See applicable connector specification.
MECHANICAL	
Force to Engage and Disengage	The Engagement force shall not exceed 3.6 pounds. The Disengagement force shall be no greater than 3.5 pounds.
Mating Characteristics	See interface dimensions shown on Page 218. Applicable to Females only: oversize pin .017 minimum diameter .045 deep; Insertion force 3 pounds maximum with .015 minimum diameter pin; withdrawal force 1 ounce minimum with .015 maximum diameter pin.
Connector Durability	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL	
Vibration	Specification MIL-STD-202, Method 204, Test Condition D.
Thermal Shock	Specification MIL-STD-202, Method 107, Test Condition C.
Corrosion (Salt Spray)	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.

Complete specifications on every connector in this catalog are available from Dynawave

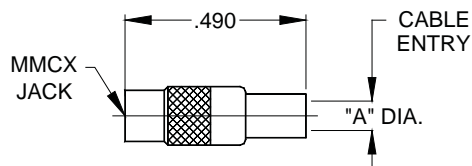
mmcx • semi rigid connectors

male, plug, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2400-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2400-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
2400-4720-5400	.051 MIN.	.047 SEMI-RIGID	BERYLLIUM COPPER	DC - 6.0 GHz.
2400-8520-5400	.089 MIN.	RG 405/U (.085)	BERYLLIUM COPPER	DC - 6.0 GHz.

female, jack, straight

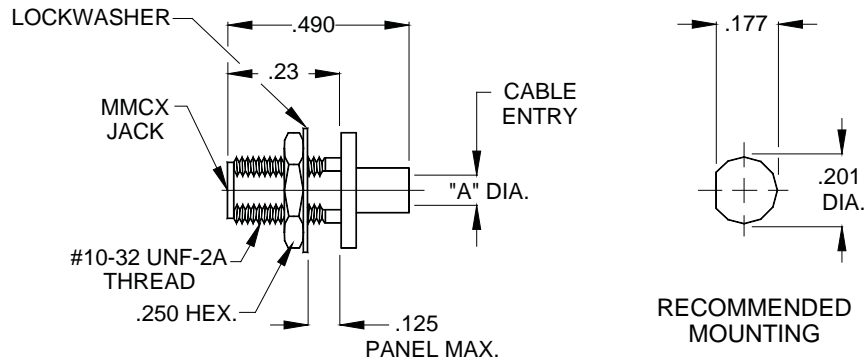


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2500-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2500-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
2500-4120-2400	.144 MIN.	RG 402/U (.085)	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

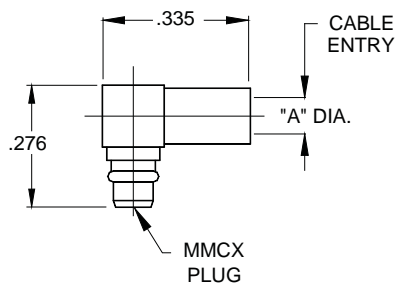
mmcx • semi rigid connectors

female, jack, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2510-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2510-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
2510-4720-5400	.051 MIN.	.047 SEMI-RIGID	BERYLLIUM COPPER	DC - 6.0 GHz.
2510-8520-5400	.089 MIN.	RG 405/U (.085)	BERYLLIUM COPPER	DC - 6.0 GHz.

male, plug, right angle

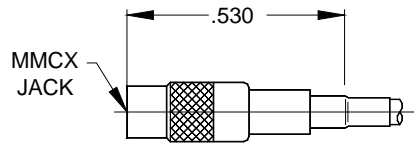


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2401-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2401-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz..

Specifications are subject to change without notice

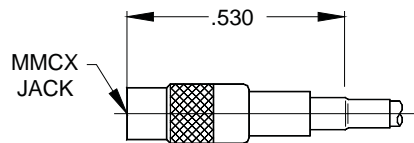
mmcX • flexible cable connectors

female, jack, straight, crimp attachment
rg174/u, 179, 187, 188, 316



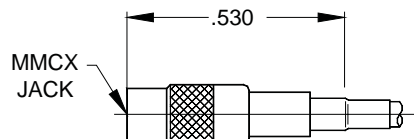
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2500-1630-2400	BRASS	DC - 3.0 GHz.

female, jack, straight, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2500-1830-2400	BRASS	DC - 3.0 GHz.

female, jack, straight, crimp attachment
rg178/u, 196

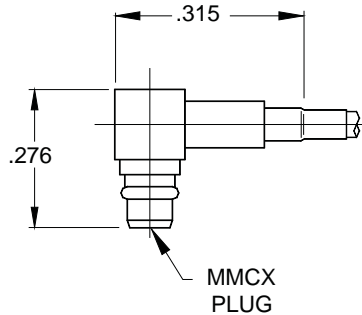


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2500-7830-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without notice

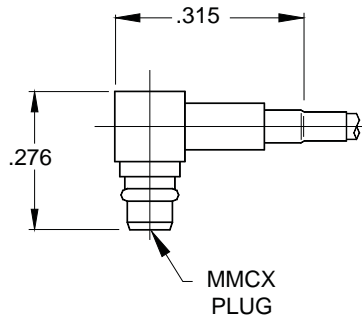
mmcx • flexible cable connectors

male, plug, right angle, crimp attachment
rg174/u, 179, 187, 188, 316



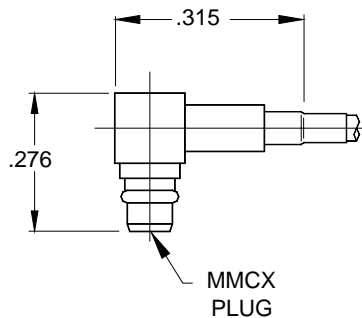
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2401-1630-2400	BRASS	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2401-1830-2400	BRASS	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg178/u, 196

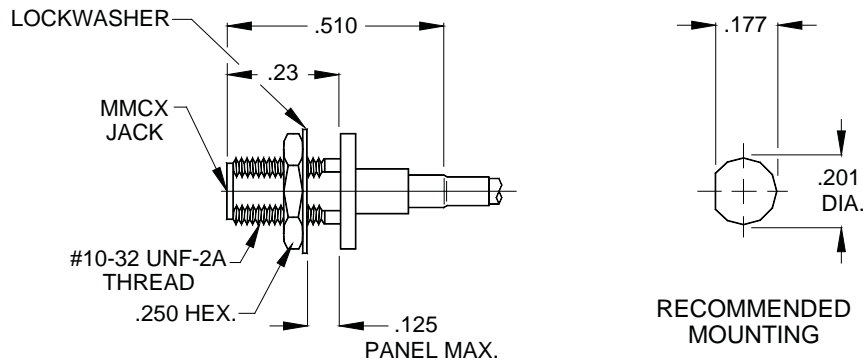


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2401-7830-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without

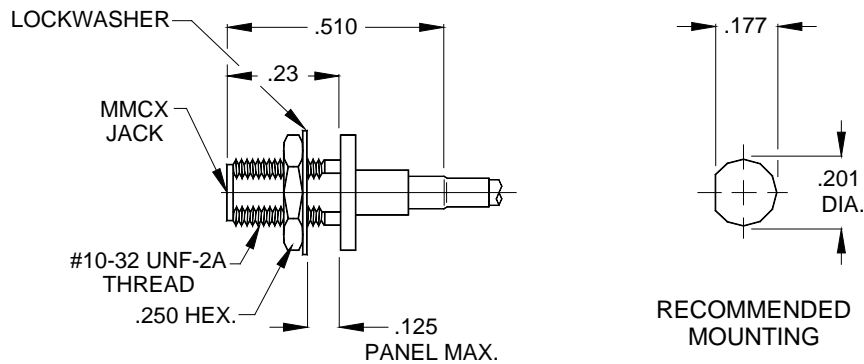
mmcx • flexible cable connectors

female, jack, bulkhead mount, crimp attachment
rg174/u, 179, 187, 188, 316



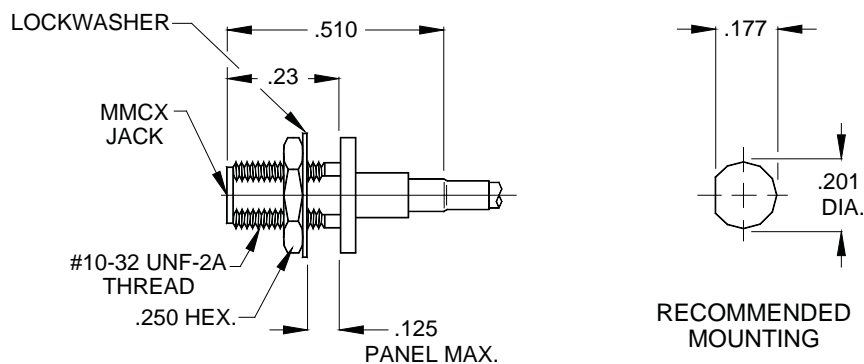
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2510-1630-2400	BRASS	DC - 3.0 GHz.

female, jack, bulkhead mount, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2510-1830-2400	BRASS	DC - 3.0 GHz.

female, jack, bulkhead mount, crimp attachment
rg178/u, 196

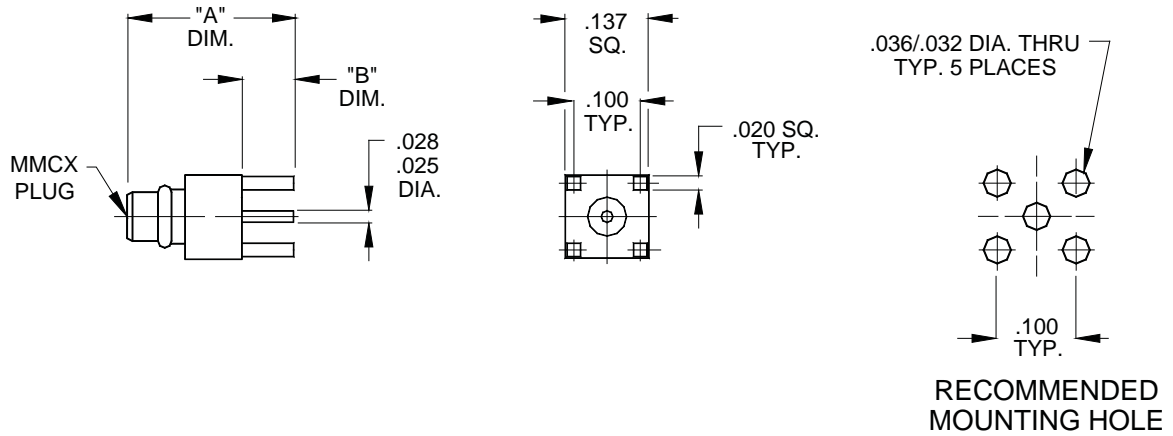


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2510-7830-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without notice

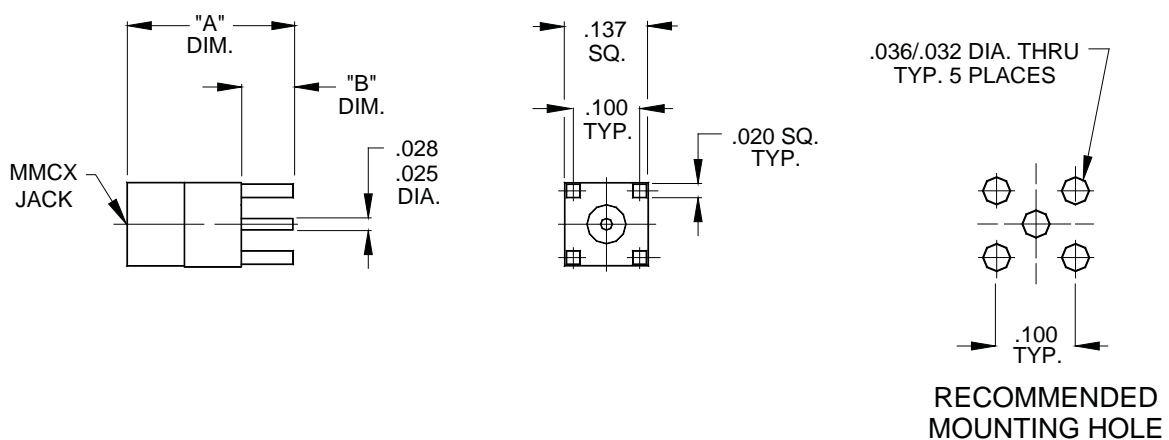
mmcx • printed circuit board

male, plug, straight, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2420-0031-2401	.295	.120	BRASS	DC - 6.0 GHz.
2420-0031-2402	.202	.025	BRASS	DC - 6.0 GHz.

female, jack, straight, 4 post, thru hole

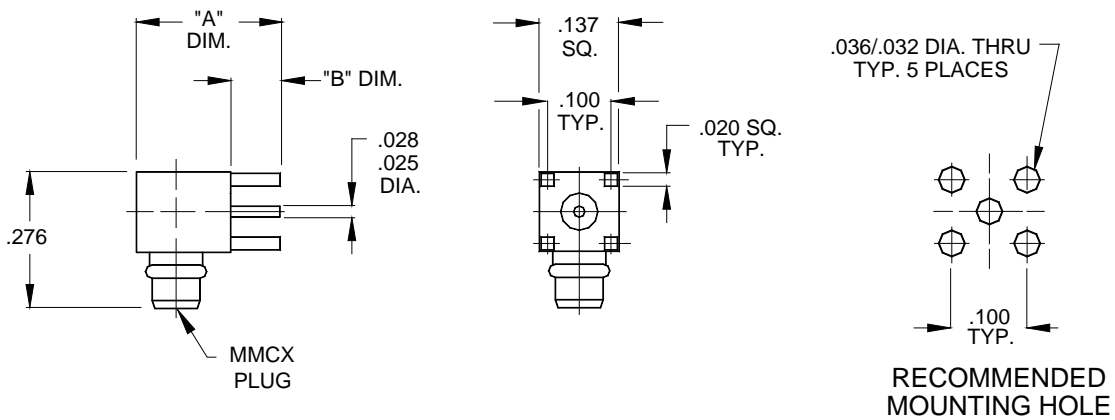


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2520-0031-2401	.295	.120	BRASS	DC - 6.0 GHz.
2520-0031-2402	.202	.025	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

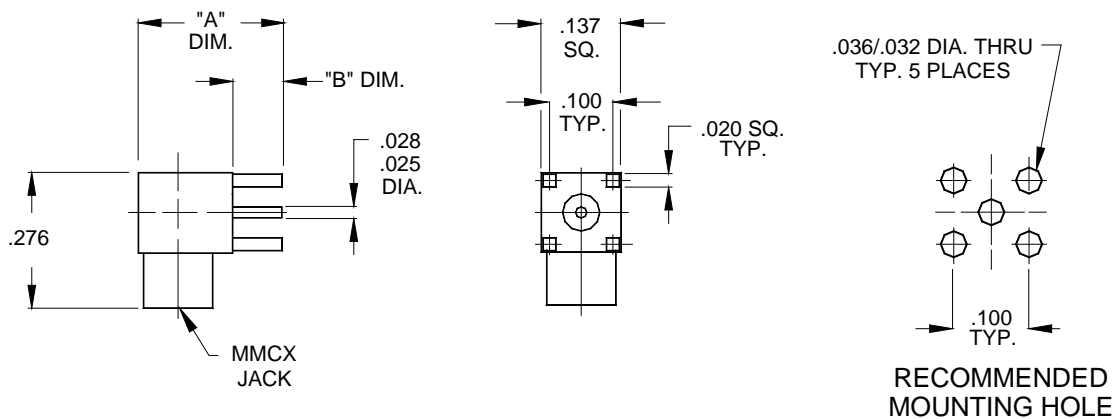
mmcx • printed circuit board

male, plug, right angle, 4 post, thru hole



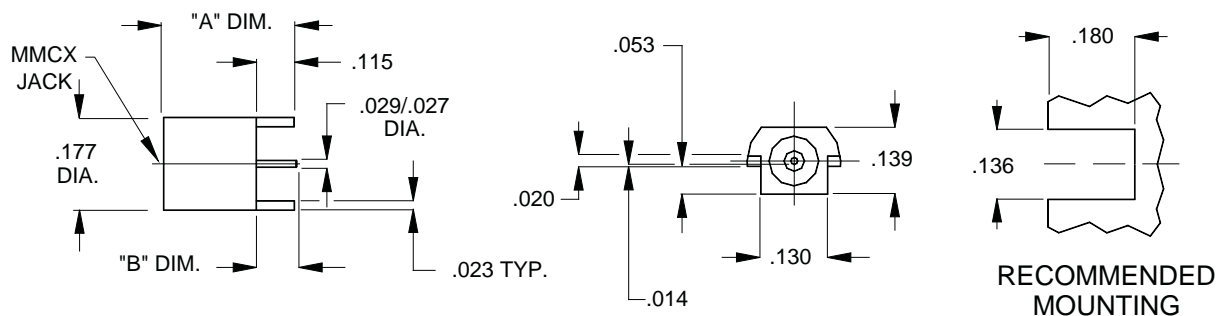
PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2421-0031-2401	.270	.120	BRASS	DC - 6.0 GHz.

female, jack, right angle, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2521-0031-2401	.270	.120	BRASS	DC - 6.0 GHz.

female, jack, edge mount

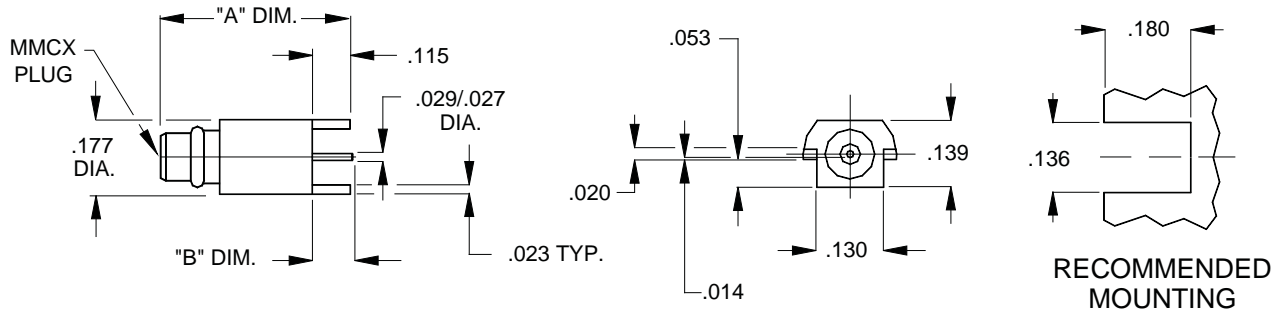


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2520-0031-2400	.296	.115	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

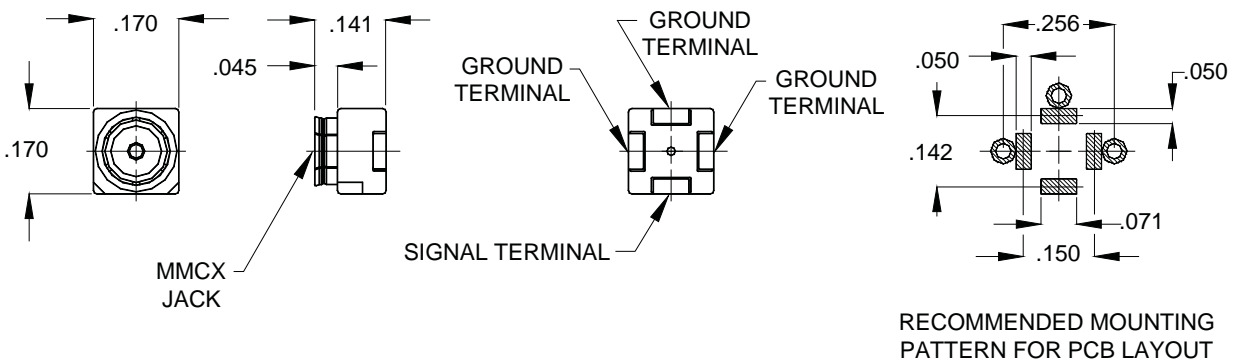
mmcx • printed circuit board

male, plug, edge mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2420-0031-2400	.400	.115	BRASS	DC - 6.0 GHz.

female, jack, surface mount

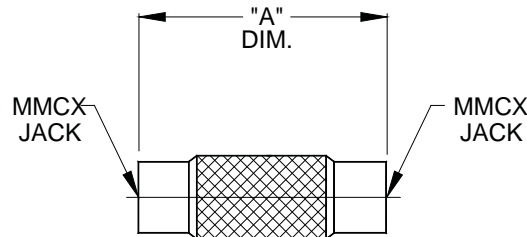


PART NUMBER	FREQUENCY RANGE
2520-0032-5400	DC - 6.0 GHz.

Specifications are subject to change without notice

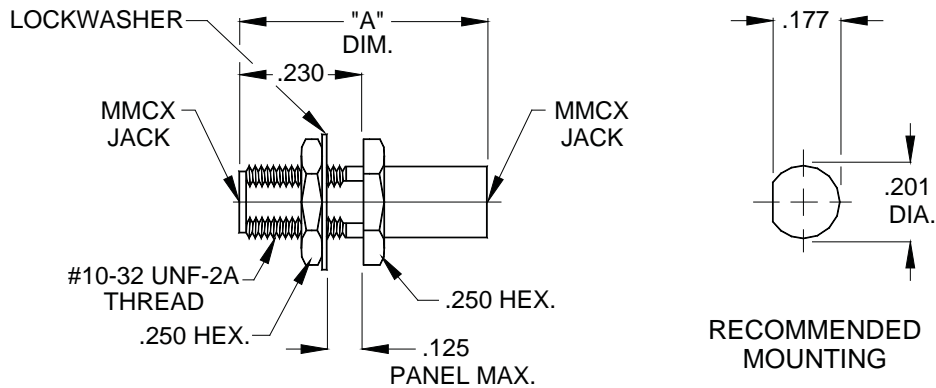
mmcx • in-series adapters

female, jack to female, jack, straight



PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-2525-2400	.720	BRASS	DC - 6.0 GHz.

female, jack to female, jack, bulkhead mount



PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-2525-2400	.620	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice