2.4 mm RF CONNECTOR

RF coaxial connector, supports up to 50 GHz

The 2.4 mm connector series is designed to eliminate the fragility of the SMA and 2.92 mm connectors by increasing the outer wall thickness and strengthening the contact pin.

We offer a diverse line-up of products, from conversion adapters to board-mount adapters.

Impedance	50 ohm
Frequency Range	Up to 50 GHz
Durability	500 cycles Min.





2.4 mm RF CONNECTOR CONVERSION ADAPTER PLUG TO PLUG



VSWR (DC \sim 50GHz) : 1.2 Max.

Insulation resistance : 5,000M Ω Min.

Dielectric withstanding voltage: 500 Vrms Min.

Center contact resistance : $4 \text{ m}\Omega$ Max. Outer contact resistance : $2.5 \text{ m}\Omega$ Max.

Durability: 500 cycles Min.

2.4 mm RF CONNECTOR CONVERSION ADAPTER JACK TO JACK



VSWR (DC \sim 50GHz) : 1.2 Max.

Insulation resistance : 5,000M Ω Min. Dielectric withstanding voltage : 500 Vrms

Min.

Center contact resistance : $4 \text{ m}\Omega$ Max. Outer contact resistance : $2.5 \text{ m}\Omega$ Max.

Durability: 500 cycle Min.

2.4 mm RF CONNECTOR CONVERSION ADAPTER PLUG TO JACK



VSWR (DC~50GHz) : 1.2 Max.

Insulation resistance : 5,000M Ω Min. Dielectric withstanding voltage : 500

Vrms Min.

Center contact resistance : $4 \text{ m}\Omega$ Max. Outer contact resistance : $2.5 \text{ m}\Omega$ Max.

Durability: 500 cycle Min.



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Impedance	50 ohm
Frequency Range	Up to 50 GHz
Durability	500 cycles Min.







2.4 mm RF CONNECTOR END LAUNCH ADAPTER FOR PCB (PLUG)



VSWR (DC \sim 50GHz) : 1.5 Max.

Insulation resistance : 5,000M Ω Min.

Dielectric withstanding voltage: 500 Vrms Min.

Center contact resistance : $6 \text{ m}\Omega$ Max. Outer contact resistance : $2.5 \text{ m}\Omega$ Max.

Durability: 500 cycles Min.

2.4 mm RF CONNECTOR END LAUNCH ADAPTER FOR PCB (JACK)



VSWR (DC~50GHz) : 1.5 Max.

Insulation resistance : 5,000M Ω Min. Dielectric withstanding voltage : 500 Vrms

Min.

Center contact resistance : $6\ m\Omega$ Max. Outer contact resistance : $2.5\ m\Omega$ Max.

Durability: 500 cycles Min.

2.4 mm RF CONNECTOR ADAPTER FOR PCB (INNER LAYER)



VSWR (DC \sim 50GHz) : 1.5 Max.

Insulation resistance : 5,000M Ω Min. Dielectric withstanding voltage : 500

Vrms Min.

Center contact resistance : 4 m Ω Max. Outer contact resistance : 2.5 m Ω Max.

Durability: 500 cycles Min.



2.4 mm RF CONNECTOR

RF coaxial connector, supports up to 50 GHz

The 2.4 mm connector series is designed to eliminate the fragility of the SMA and 2.92 mm connectors by increasing the outer wall thickness and strengthening the contact pin.

We offer a diverse line-up of products, from conversion adapters to board-mount adapters.

Impedance	50 ohm
Frequency Range	Up to 50 GHz
Durability	500 cycles Min.





2.4 mm RF CONNECTOR ADAPTER FOR PCB (OUTER LAYER)



VSWR (DC~50GHz) : 1.5 Max.

Insulation resistance : 5,000M Ω Min.

Dielectric withstanding voltage: 500 Vrms Min.

Center contact resistance : $4 \text{ m}\Omega$ Max. Outer contact resistance : 2.5 m Ω Max.

Durability: 500 cycles Min.

2.4 mm RF CONNECTOR TERMINATION ADAPTER (PLUG) (Nonreflective terminator)



Return loss: -20 dB Max.

Durability: 500 cycles Min.

2.4 mm RF CONNECTOR TERMINATION ADAPTER (JACK) (Nonreflective terminator)



Return loss: -20 dB Max.

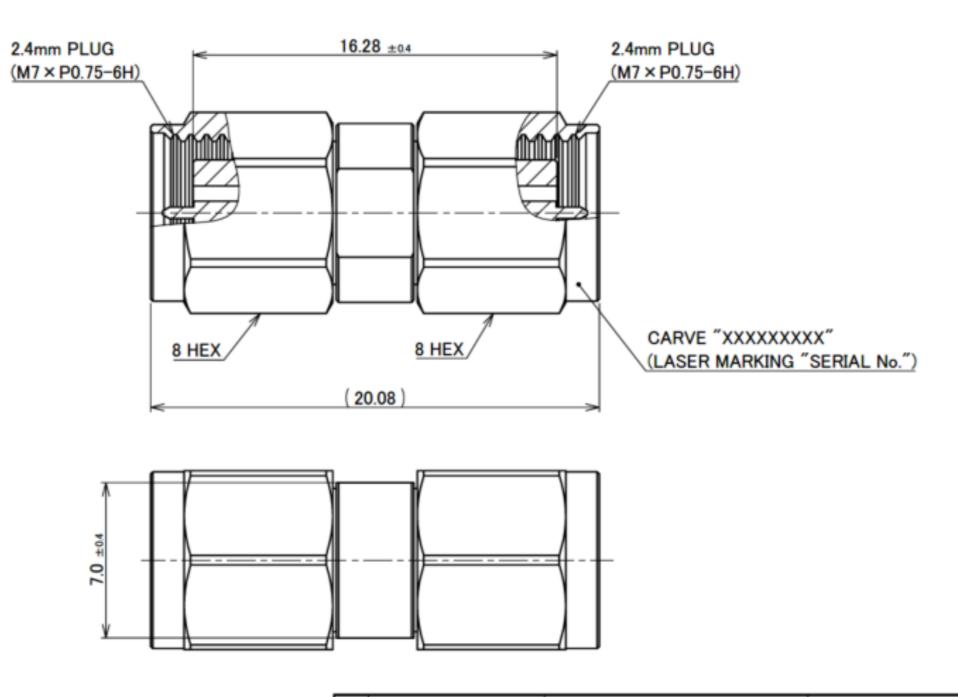
Durability: 500 cycles Min.



Component Parts Details

Recommended P/N		50201-0001	
PART NO.		REMARK	
50201-0001	PLUG TO PLUG TYPE		



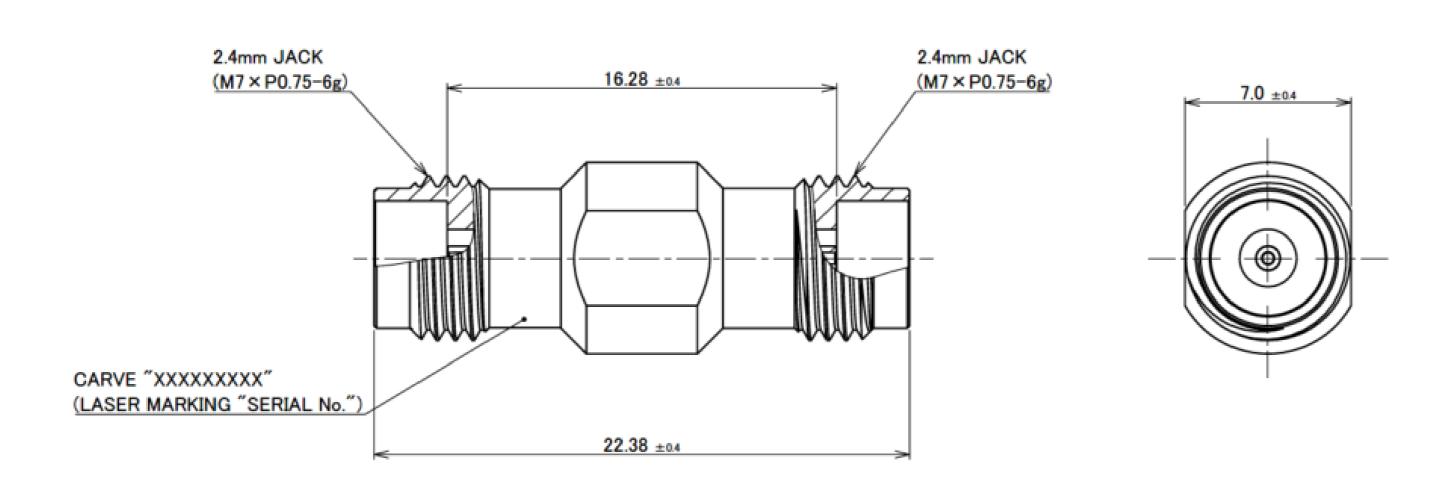


7	SHELL	sus	PASSIVATED
6	C RING	BERYLLIUM COPPER	_
5	GASKET	SILICONE	RED
4	BODY	sus	PASSIVATED
3	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu
2	INSULATOR	ULTEM 1000	AMBER
1	BODY	sus	PASSIVATED
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
			T I HOLL , T LEM H H H



Recommended P/N		50201-JJ01	
PART NO.		REMARK	
50201-JJ01	JAC	OK TO JACK TYPE	

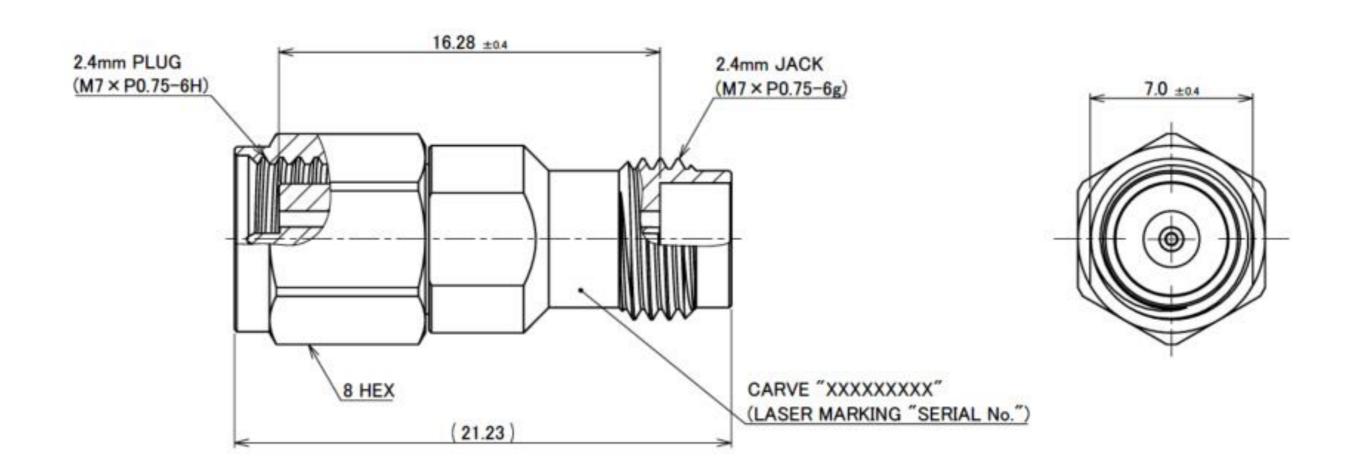




4	BODY	SUS	PASSIVATED
3	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu
2	INSULATOR	ULTEM 1000	AMBER
1	BODY	sus	PASSIVATED
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

	Recommended P/N		50201-0J01	
1	PART NO.		REMARK	
	50201-0J01	PLU	G TO JACK TYPE	





10	DESCRIPTION	MATERIAL	FINISH, REMARKS	
1	BODY	SUS	PASSIVATED	
2	INSULATOR	ULTEM 1000	AMBER	
3	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu	
4	BODY	SUS	PASSIVATED	
5	GASKET	SILICONE	RED	
6	C RING	BERYLLIUM COPPER	-	
7	SHELL	SUS	PASSIVATED	





Rev.0

Recommended	P/N 50	202-0001	
PART NO.	REMARK		
50202-0001	PLUG TYPE		
2.4mm PLUG		φ0.23 ±001	DETAIL A (S = 20 : 1)
$(M7 \times P0.5-6H)$			
	12.80	1.65 ±0.2 ±0.4	0.76 ±0.2
			BODY-2
	9.53 ±0.4		2.79 ±0.2

PCB LAYOUT

ITEMS

PART No.

DURABILITY

VSWR

RATING FREQUENCY

INNER CONTACT RESISTANCE

OUTER CONTACT RESISTANCE

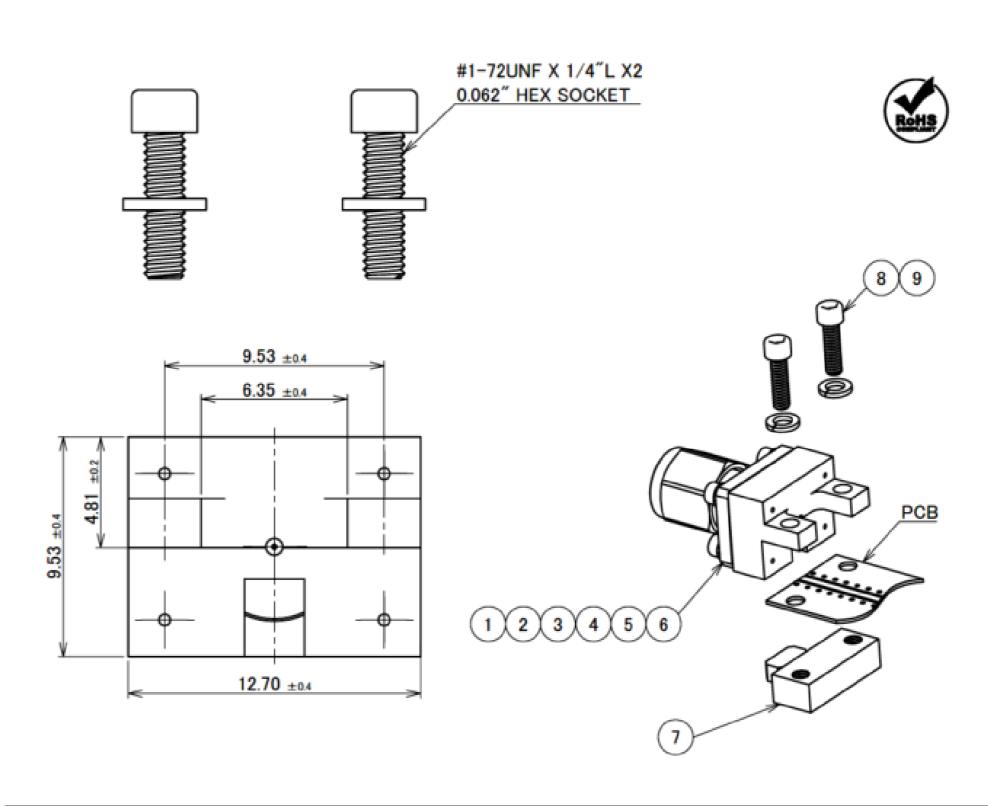
DIELECTRIC WITHSTANDING VOLTAGE

INSULATION RESISTANCE

PRODUCT SPECIFICATION

APPEARANCE CRITERIA No.

PACKING STANDARD



SPECIFICATION

50201-0J01

DC~50 GHz

1.2 MAX. AT DC~50 GHz

4.0mohm MAX.

2.5mohm MAX.

5000 Mohm MIN.

AC 500 Vrms MIN. 1min

500 CYCLES

PRS-2706

PST-21020

QLS-A***

50201-JJ01

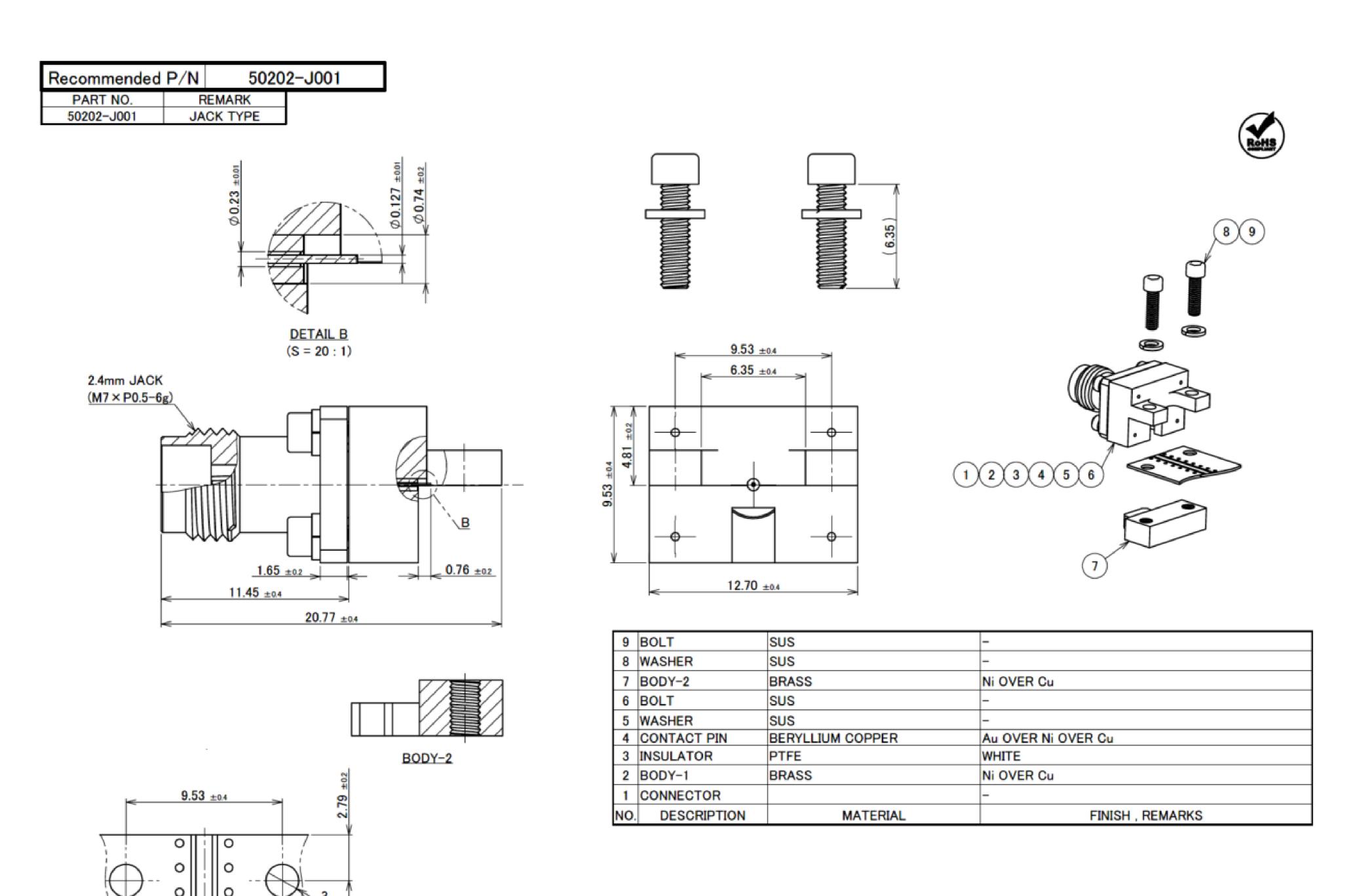
QLS-A***

50201-0001

QLS-A***

9	BOLT	SUS	_
8	WASHER	sus	_
7	BODY-2	BRASS	Ni OVER Cu
6	BOLT	sus	_
5	WASHER	sus	_
4	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu
3	INSULATOR	PTFE	WHITE
2	BODY-1	BRASS	Ni OVER Cu
1	CONNECTOR		_
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS





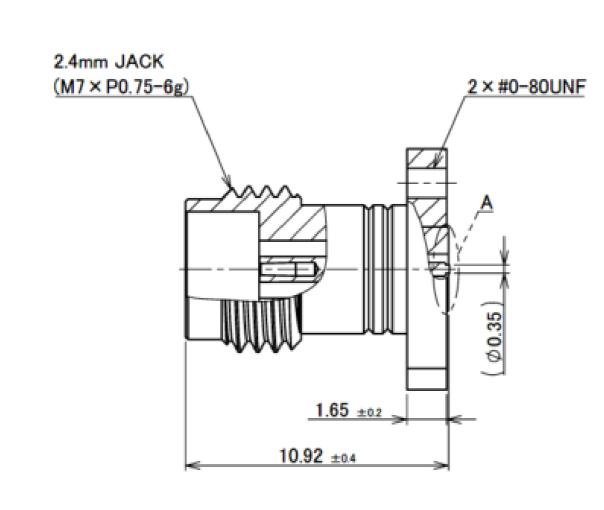
ITEMS	SPECIFICATION		
PART No.	50202-0001	50202-J001	
RATING FREQUENCY	DC~5	50GHz	
VSWR	1.5 MAX. AT	DC~50GHz	
INNER CONTACT RESISTANCE	6.0mohm MAX.		
OUTER CONTACT RESISTANCE	2.5mohm MAX.		
INSULATION RESISTANCE	5000Mohm MIN		
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min		
DURABILITY	500 CY	CLES	
PRODUCT SPECIFICATION	PRS-2707		
PACKING STANDARD	PST-21020		
APPEARANCE CRITERIA No.	QLS-A*** QLS-A***		

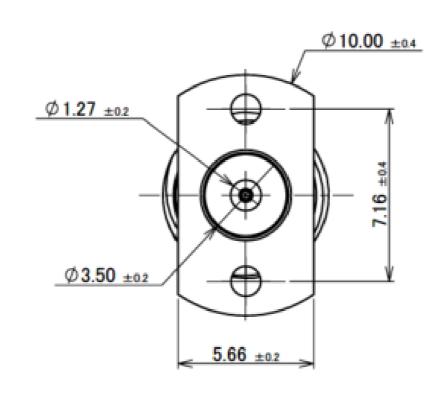


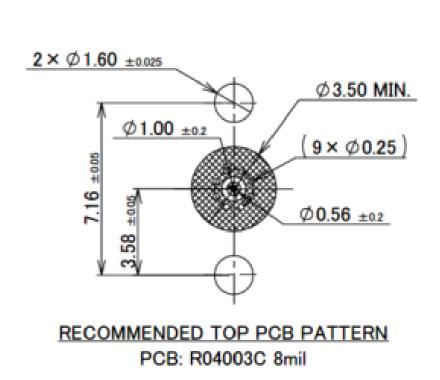
PCB LAYOUT

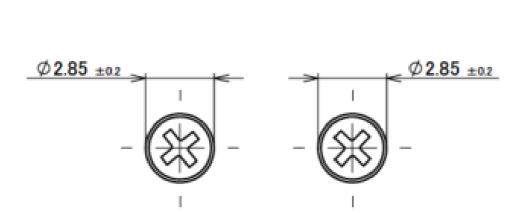
Recommended P/N		50203-J001	
PART NO.		REMARK	
50203-J001	IN	INER LAYER TYPE	

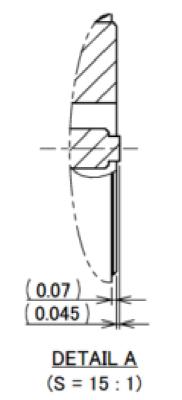


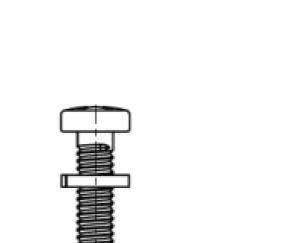












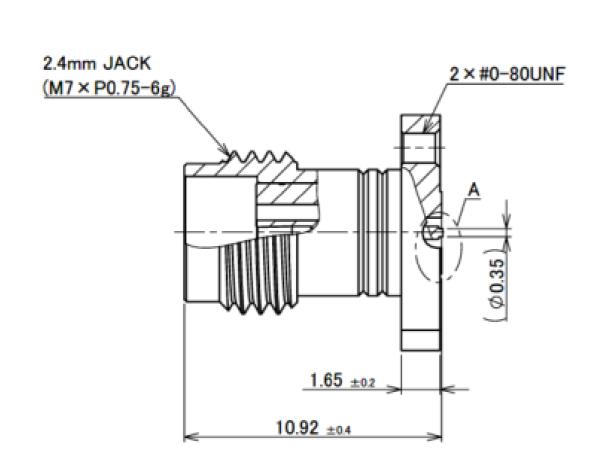
6	BOLT	SUS	_	
5	WASHER	SUS	_	
4	BODY	SUS	PASSIVATED	
3	INSULATOR	ULTEM 1000	AMBER	
2	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu	
1	LOCK RING	BRASS	Ni OVER Cu	
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS	

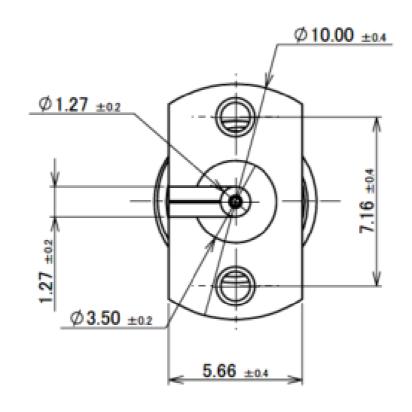
ITEMS	SPECIFICATION
RATING FREQUENCY	DC∼50 GHz
VSWR	1.5 MAX. AT DC~50 GHz
INNER CONTACT RESISTANCE	4.0mohm MAX.
OUTER CONTACT RESISTANCE	2.5mohm MAX.
INSULATION RESISTANCE	5000 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC 500 Vrms MIN. 1min
DURABILITY	500 CYCLES
PRODUCT SPECIFICATION	PRS-2708
PACKING STANDARD	PST-21020
APPEARANCE CRITERIA No.	QLS-A***

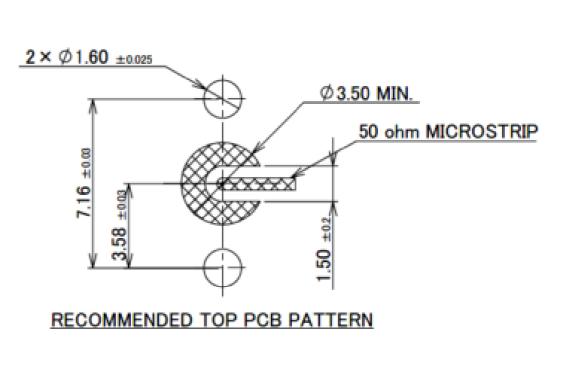


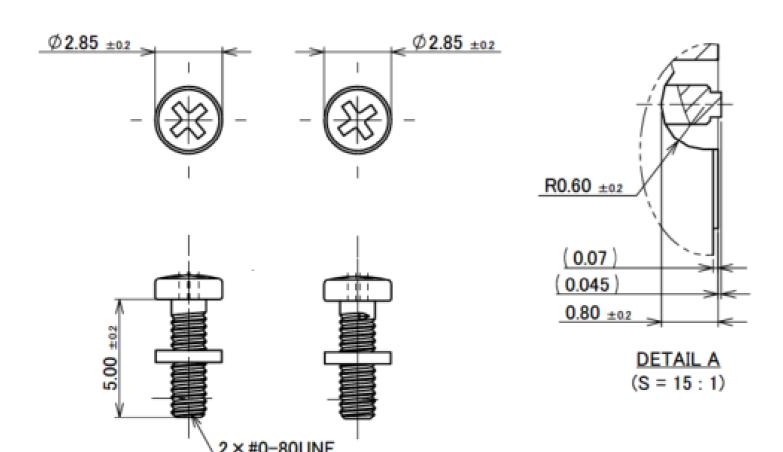
Recommended P/N		50204-J001	
PART NO.		REMARK	
50204-J001	OUTER LAYER TYPE		











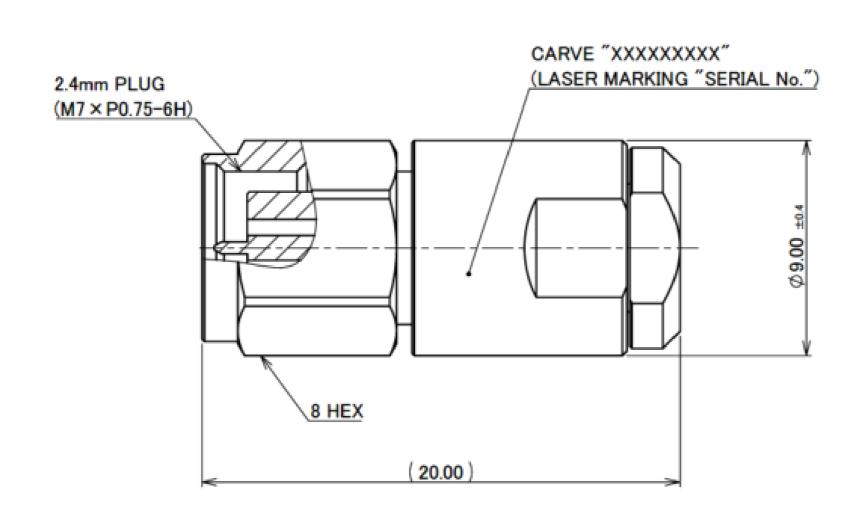
6	BOLT	SUS	_
5	WASHER	SUS	_
4	LOCK RING	BRASS COPPER	Ni OVER Cu
3	INSULATOR	ULTEM 1000	AMBER
2	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu
1	BODY	SUS	PASSIVATED
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

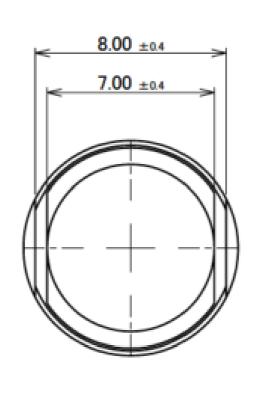
ITEMS	SPECIFICATION	
RATING FREQUENCY	DC∼50 GHz	
VSWR	1.5 MAX. AT DC~50 GHz	
INNER CONTACT RESISTANCE	4.0mohm MAX.	
OUTER CONTACT RESISTANCE	2.5mohm MAX.	
INSULATION RESISTANCE	5000 Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	AC 500 Vrms MIN. 1min	
DURABILITY	500 CYCLES	
PRODUCT SPECIFICATION	PRS-2709	
PACKING STANDARD	PST-21020	
APPEARANCE CRITERIA No.	QLS-A***	



Recommended P/N		5020	5-0001
PART NO.	F	REMARK	
50205-0001	PLUG TYPE		



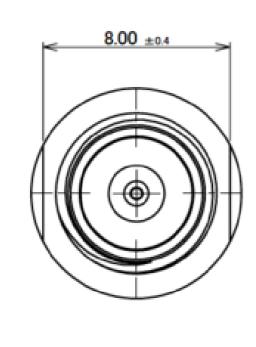


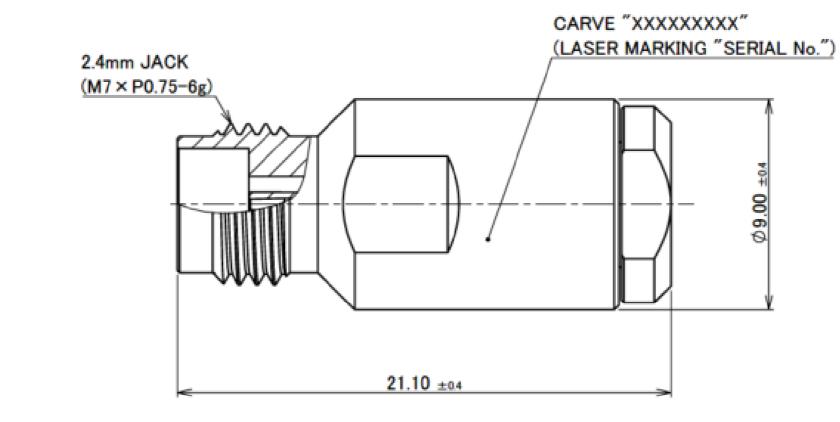


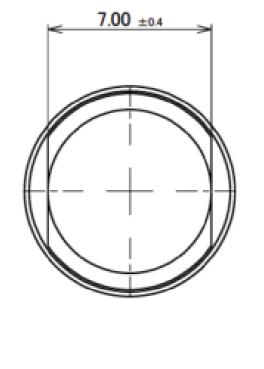
11	NUT	sus	PASSIVATED
10	BOLT	SUS	PASSIVATED
9	BODY	BRASS	Au OVER Ni OVER Cu
8	RESISTOR	_	_
7	BODY	SUS	PASSIVATED
6	INSULATOR	PEEK	BEIGE
5	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu
4	SHELL	sus	PASSIVATED
3	GASKET	SILICONE	RED
2	C RING	BERYLLIUM COPPER	_
1	BODY	sus	PASSIVATED
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS

Recommended	P/N	5020	5-J001
PART NO.	F	REMARK	
50205-J001	JA	CK TYPE	









8	NUT	sus	PASSIVATED
7	BOLT	sus	PASSIVATED
6	BODY	BRASS	Au OVER Ni OVER Cu
5	BODY	sus	PASSIVATED
4	INSULATOR	PEEK	BEIGE
3	RESISTOR	_	_
2	CONTACT PIN	BERYLLIUM COPPER	Au OVER Ni OVER Cu
1	BODY	SUS	PASSIVATED
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS





ITEMS	SPECIFICATION				
PART No.	50205-0001	50205-J001			
RATING FREQUENCY	DC~	DC~50GHz			
RETURN LOSS	−20dB MAX. AT DC~50 GHz				
DURABILITY	500 CYCLES				
PRODUCT SPECIFICATION	PRS-2710				
PACKING STANDARD	PST-21020				
APPEARANCE CRITERIA No.	QLS-A*** QLS-A***				





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