

Quality & Precise

RF COAXIAL CONNECTOR & ADAPTER BROCHURE

2022

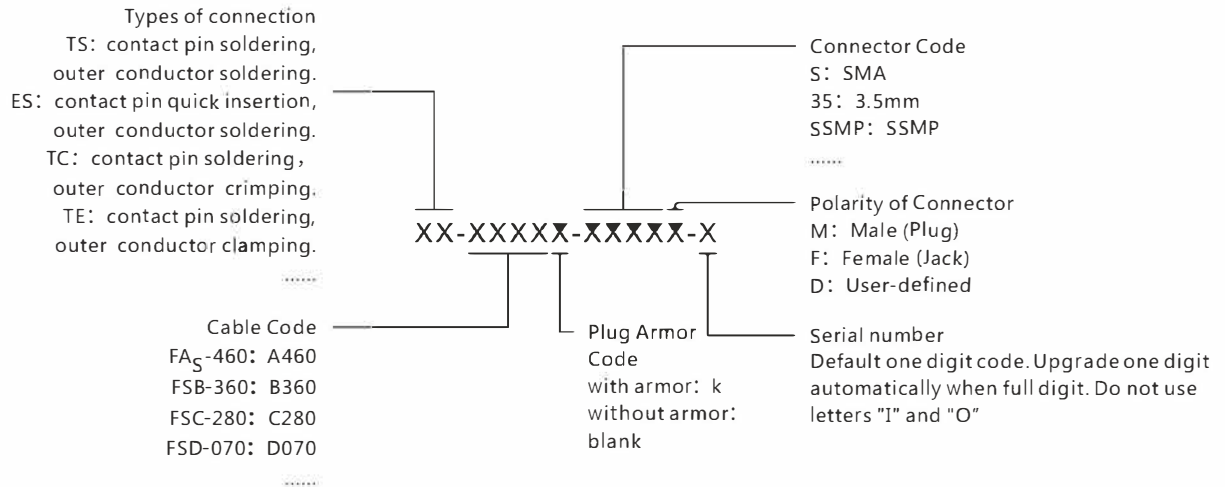


Maxwellon

RF COAXIAL CONNECTORS

RF Coaxial Connector

■ Connector Selection Information



Remarks:

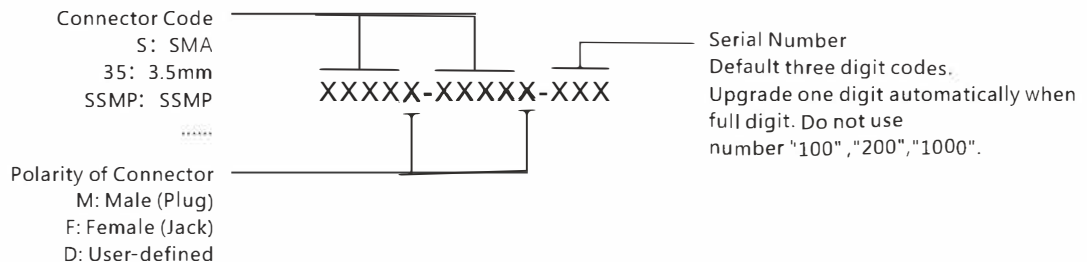
1. RA connector: When the part number shows right angle, add "RA" after connector polarity code.
2. Fixing type: In case special fixing methods such as bulkhead or flange, add "-BH (bulkhead installation) or 2F (two-hole flange), 4F (four-hole flange)" to the front serial number.

E.g.

FSA-460 with SMA male straight (contact pin soldering, outer conductor soldering). Namely: TS-A460-SM-A.
 FSE-360 with armor with SMA male straight head(contact pin soldering, outer conductor soldering). Namely: TS-E360K-SM-A
 FSE-460 with SMA male right angle (contact pin soldering, outer conductor soldering). Namely: TS-A460-SM-RA-A.
 FSB-500 with N-bulkhead female straight (contact pin soldering, outer conductor soldering). Namely: TS-B500-NF-BH-A.

RF Coaxial Adapter

■ Adapter Selection Information



Remarks:

1. Adapter encoding order: the interface with high frequency is programmed first, and the male with the same frequency is programmed first. E.g. 26.5GHz 3.5mm straight male head to 40GHz 2.92mm straight female head adapter. Namely: 29F-35M-001.
2. Fixing type: in case of special fixing methods such as wall penetration or flange, add "-BH (wall-penetration installation) or 2F (two-hole flange), 4F (four-hole flange)" before the serial number, and omit the interval symbol before the serial number "-".
 E.g. 2.4mm straight female head to 2.4mm straight female head, four-hole flange adapter; Namely: 24F-24F-4F001.

Chart of Connector

No.	Type	Code	No.	Type	Code	Type	Code	Code
01	SMA	S	08	SMP	SMP	15	SSMA	SSMA
02	N	N	09	SSMP	SSMP	16	SSMB	SSMB
03	3.5mm	35	10	TNC	T	17	7mm	7
04	2.92mm	29	11	BNC	B	18	7/16	716
05	2.4mm	24	12	SMB	SMB	19	MCX	MX
06	1.85mm	18	13	BMA	BMA	20	MMCX	MC
07	1.0mm	10	14	SBMA	SBMA	21	SC	SC



Chart of Adapter

Series \ Code	1.0mm	1.85mm	2.4mm	2.92mm	3.5mm	SMA	N	TNC	BMA	SBMA	SMP	SSMP
	10	18	24	29	35	S	N	T	BMA	SBMA	SMP	SSMP
1.0mm	●	●										
1.85mm	●	●	●	●							●	●
2.4mm		●	●	●	●		●				●	●
2.92mm		●	●	●	●		●				●	●
3.5mm		●	●	●	●		●	●	●	●	●	
SMA						●						
N			●	●	●		●	●				
TNC					●		●	●				
BMA					●				●			
SBMA					●					●		
SMP		●	●	●	●						●	
SSMP		●	●	●								



VNA Adapter

PN	Description
N18F-A18F-001	NMD 1.85mm Female to APC 1.85mm Female adapter
N18F-N18M-001	NMD 1.85mm Female to NMD 1.85mm Male adapter
N18F-N18F-001	NMD 1.85mm Female to NMD 1.85mm Female adapter
N18M-18M-001	NMD 1.85mm Male to 1.85mm Male adapter
N24M-24M-001	NMD 2.4mm Male to 2.4mm Male adapter
N29M-29M-BH001	NMD 2.92mm Male to 2.92mm Male bulkhead adapter
N29M-24M-BH001	NMD 2.92mm Male to 2.4mm Male bulkhead adapter
N35M-35M-BH001	NMD 3.5mm Male to 3.5mm Male bulkhead adapter
NF-35M-BH001	N Female to 3.5mm Male bulkhead adapter



N18M-18M-001



N24M-24M-001



N29M-29M-BH001



N29M-24M-BH001



N35M-35M-BH001



NF-35M-BH001

R&D Capability

■ Connector & Adapter

Coaxial Connector: 7/16、N、TNC、SMA、BMA、SMP、SSMP、3.5mm、2.92mm、2.4mm、1.85mm、1.0mm series etc.

Aerospace & TVAC Connector : SMA、2.92mm、TNC、N、SSMA series etc. TML<1%, CVCM<0.1%

High power Connector : N、SC、7/16、HN series etc.

Self-lock Connector : N、SMA、TNC series etc.

PCB welding-free connector: 2.92mm、2.4mm、1.85mm、1.0mm series etc.

Adapter: N、SMA、3.5mm、2.92mm、2.4mm、1.85mm、1.0mm series etc.

NMD Adapter: LPC high precision NMD 3.5mm、2.92mm、2.4mm、1.85mm VNA adapter.

Probe : UFL、ML-51、MS-156、MS-180、SWD、PG-30 series etc.

■ Software Analysis & Design

Pro/E、SolidWorks、AutoCAD for Structure Analysis & Design

HFSS Electromagnetic Simulation & Workbench Thermomechanical Analysis

■ Precision machining

Area: 3000 m²

CNC quantity: 50 sets planned

Star 5 axis, 8 axis linkage lathe

Star Micronics ESPRIT CAM programming

Min. processing diameter $\Phi 0.2\text{mm}$

Max. processing diameter $\Phi 38\text{mm}$



SR-20JII



Lab Test Measurement Ability

Type	Description	Test method/standard	Range /Capacity	Precision	Main Test Equipment
Electrical characteristics	VSWR/Insertion Loss/ Phase/Differential impedance/ Eye diagram/ Time domain analysis/ Impedance/Delay	EIA-364-108 SJ 2331-1983 SJ 2474-1984	50MHz~40GHz	±2%	VNA : Keysight N5230C Keysight E8363B
			10MHz~110GHz	±2%	VNA : Rohd-Schwarz ZVA67 CETC No.41 3672P
	Insulation voltage test	EIA-364-20 IEC-512-4-1	0~5KVAC/0~6KVDC 0.01mA~20mA	±2%	Tonghui Insulation withstand vol. tester
Outline Dimension	Outlook inspection	IPC 620	Magnification: 8X~100X	—	CCD electronic amplifier
	Size measurement	EIA-36418	X300*Y200mm	0.001mm	Two dimension measuring instrument
		EIA-36418	0~15mm	0.001mm	Height Gauger
Mechanical characteristic	Plug and pull life test	IEC512-9-1 EIA-364-09	/	/	Plug and pull life tester
Environmental test	Metal plating layer x-ray analysis	GB/T 16921	Element: Au/Ni/Cu/Sn/Ag/Alloy Test minimum value: Φ0.16mm	±5%	Film thickness tester
		ASTM B568			
	XRF	IEC 62321-5:2013	RoHS 4 items	MDL2mg/Kg	RoHS 1.0
		ICE 62321-4:2013+A1:2017			
		IEC 62321-7-1:2015 IEC 62321-6:2015			
	GC-MS	IEC 62321-8:2017	DEHP\BBP\DBP\DiBP	MDL30mg/Kg	RoHS 2.0
	Salt spray test	GJB360B-2009 method101	+5 °C+55°C	±3%	Salt spray tester

Test Equipment



Film thickness tester



Salt spray tester



VNA



Insulation withstand voltage tester



RoHS1.0 tester



RoHS2.0 tester



Optical measuring device



Plug and pull life tester



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