Subminiature Coaxial Switch Connector MS-156 Series

HIROSE ELECTRIC CO., LTD.

Fig. 1

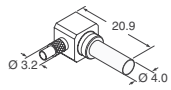


Fig. 2

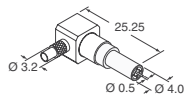


Fig. 3

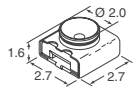


Fig. 4

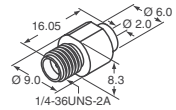
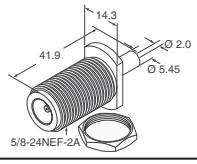


Fig. 5



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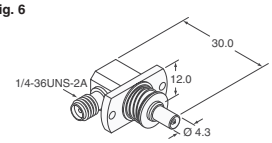

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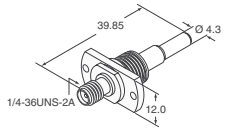
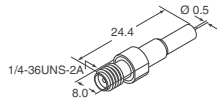


Fig. 8



Features:
• Developed for inspection of high frequency circuits used in portable terminals • Verification of the circuit performance is accomplished by simply inserting the external plug in the board mounted receptacle

Specifications:
• Operating Temperature Range: -40°C ~ 85°C • Rated Power: 2W • Frequency Range: DC to 6GHz • Contact Resistance: 100mΩ maximum @ 100mA maximum • Insulation Resistance: 1000MΩ @ 100VDC • Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute

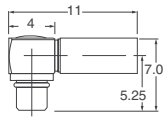
Material Specifications:
• Shell: Phosphor Bronze; Gold plating • Insulator: 9T Nylon; UL94V0 • Common Terminal: Beryllium Copper; Partially gold plating (Nickel barrier) • Antenna Terminal: Phosphor Bronze; Partially gold plating (Nickel barrier)

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing	Hirose Part No.
1	Press Down Type Plug	H11378-ND	51.38	47.71	45.88	—	—	MS-156-C(LP)-1
2	Simplified Lock Type Plug	H11379-ND	37.52	34.84	33.50	—	—	MS-156-C(LP)-2
2	Plug	H11380-ND	59.78	55.51	53.38	—	—	MS-156-C(LP)-5
3	Receptacle without vacuum cap	—	—	—	—	H11381TR-ND	884.00/2,000	MS-156NB
3	Receptacle without vacuum cap	H11382-ND	2.05	1.58	1.26	—	—	MS-156NB(01)
3	Receptacle with vacuum cap	H11383CT-ND†	1.90	1.47	1.17	H11383TR-ND	1167.00/1,500	MS-156NB(02)
3	Receptacle	H11384CT-ND†	1.22	.88	.72	H11384TR-ND	832.00/2,000	MS-156NBS
4	SMA Adapter for Plug Inspection	H11385-ND	109.62	101.79	97.88	—	—	MS-156R-HRMJ-1
5	SMA Adapter for Plug Inspection	H11386-ND	92.12	85.54	82.25	—	—	MS-156R-NJ-1
6	SMA Adapter Right Angle	H11396-ND	118.58	110.11	105.88	—	—	MS-156LP-HRMJ-4
7	SMA Floating Type Adapter	H11397-ND	89.18	82.81	79.63	—	—	MS-156-HRMJ-12
8	SMA Simplified Lock Type Adapter	H11398-ND	27.30	25.48	23.66	—	—	MS-156-HRMJ-2

† Cut Tape

Ultra Miniature Snap-On Coaxial Connector PC Card Type II Mountable MMCX Type

Features: Snap-on coupling mechanism makes it easy to engage and disengage. Low profile accommodates PCMCIA type II cards. The MMCX-LR-SMT is only 3.51mm when mounted on the bottom of a type II card. Designed for ultra thin cable such as RG-178B/U (ø1.8), RG-316/U (ø2.59 max.) ø1.48 single shielded cable (one of the smallest available) and CO-6F-FH-SB (ø1.48) made by Hitachi Cable Ltd. Compatible with all industry standard MMCX connectors.
Specifications: • Nominal Characteristic Impedance: 50Ω • Operating Temperature Range: -55°C ~ 85°C • Rated Frequency: DC-6GHz • Insulation Resistance: 500MΩ minimum • Contact Resistance: 10mΩ maximum (center), 5mΩ maximum (outer)
Material: • Body: Brass with gold plating • Male center contact: Phosphor bronze with gold plating • Female Center Contact: Beryllium bronze with gold plating • Insulator: PTFE • Fixing Ring: Beryllium copper (plug) with nickel plating • Crimp Sleeve: Copper with gold plating • Cover: Brass (plug) with gold plating



Cable Type	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Right Angle Plug					
RG-316/U Type Coaxial Cable	H11469-ND	10.56	9.77	8.19	MMCX-LP-316/U(40)

SMA Coaxial Connectors HRM(V) Series

Features: Complete compatibility with SMA coaxial connectors, high degree of impedance matching and high durability **Specifications:** • Nominal Characteristic Impedance: 50Ω • Operating Temperature Range: -55°C ~ 85°C • Frequency Range: DC~18GHz • Insulation Resistance: 5000MΩ minimum @ 500VDC • Withstanding Voltage: No flashover or insulation breakdown @ 1,000 VAC/1 minute • Contact Resistance: 6mΩ maximum (center), 6mΩ maximum (outer) @ 100mA maximum • V.S.W.R.: 1.2 maximum for frequencies of DC~10GHz; 1.3 maximum for frequencies of 10~18 GHz • Durability: 500 cycles **Material:** • Shell: Stainless steel; passivated • Female center contact: Beryllium copper; gold plated • Center contact: Brass; gold plated • Insulator: PTFE

Fig.	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	H11565-ND	4.79	3.72	2.97	HRM(V)-301S
2	H11566-ND	4.79	3.72	2.97	HRM(V)-302S
3	H11567-ND	4.99	3.87	3.10	HRM(V)-304S
4	H11564-ND	4.79	3.72	2.97	HRM(V)-306S

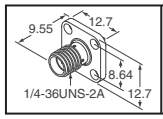


Fig. 1

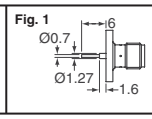


Fig. 2

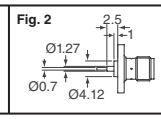


Fig. 3

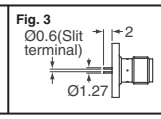
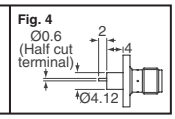


Fig. 4



Microwave Coaxial Connectors with Switch

SWD and SWF Type — Small Size and Low Profile

Features: • These small size, low profile coaxial connectors are very useful for characteristic measurement of cellular phones and microwave units • Easily possible to switch the line connection and disconnection by special probe • Surface mountable and reflow solderable
Specifications: • Operating Temperature Range: -40°C~85°C (MM8430-2600RA1: -40°C~90°C) • Rated Voltage: 250 Vrms • Frequency Range: DC to 6GHz • Contact Resistance: MM8430-2600RA1: 25mΩ maximum; MM8430-2610RA1: 50mΩ maximum; MM8130-2600RA2: 70mΩ maximum • Insulation Resistance: 500MΩ • Withstanding Voltage: MM8430-2600RA1: No evidence of breakdown; MM8430-2610RA1 and MM8130-2600RA2: 300VAC

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Murata Part No.
1	SWD Type	490-1062-1-ND†	.61	.48	.38	MM8430-2600RA1
		490-1062-2-ND‡		340.00/1,000		MM8430-2600RA1
		490-4980-1-ND†	.51	.39	.32	MM8430-2610RA1
		490-4980-2-ND‡		280.00/1,000		MM8430-2610RA1
	SWD Series Kit	490-5057-ND	46.25	—	—	M1KMM8430-SWD01
2	SWF Type	490-4981-1-ND†	.50	.39	.31	MM8130-2600RA2
		490-4981-2-ND‡		554.00/2,000		MM8130-2600RA2
	SWF Series Kit	490-5056-ND	46.25	—	—	M1KMM8130-SWF01
3	Manual Test Probe	490-4982-ND	32.10	29.81	28.66	MXHS83QE3000
4	Auto Test Probe	490-4983-ND	80.03	74.32	71.46	MM126036

† Cut Tape ‡ Tape and Reel

Fig. 1

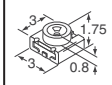


Fig. 2

Fig. 3

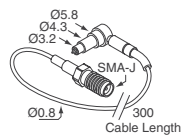
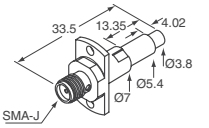


Fig. 4



Standardized Phono-Plugs

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP.

Fig. 1

Fig. 2

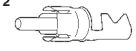


Fig. 3

Fig. 4

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
1	Conventional Type	561K-ND	.78	7.38	71.20
2	Strain Relief Lug Crimps to Wire Insulation	565K-ND	1.05	9.92	91.80
3	Panel Mount Jack Hex Base Type	576K-ND	1.83	17.23	163.80
4	Snap-Fit 90° PC Phono Jack	901K-ND	1.64	15.39	148.50