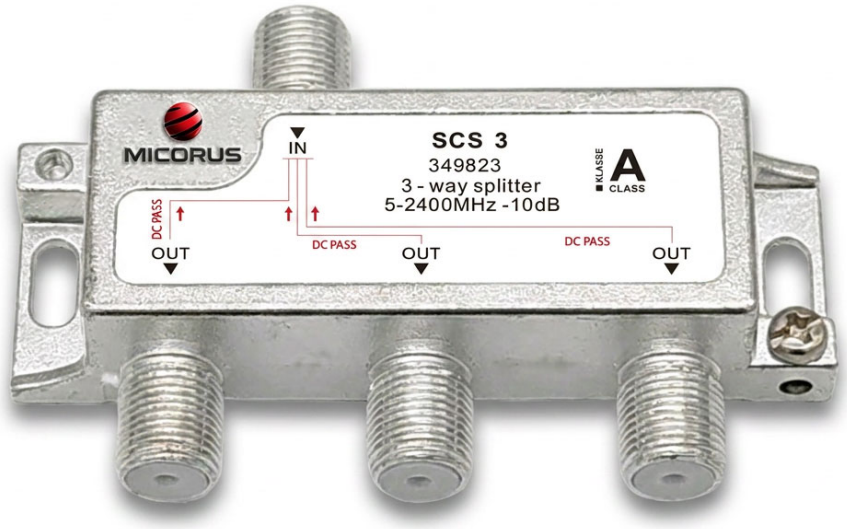
UK

TECHNOLOGY

COAXIAL SPLITTER

MC-DSP-03S

Professional 3-Way SAT-IF and MATV Coaxial Splitter



Professional Product Overview
Professional indoor 3-way coaxial splitter designed for SAT-IF and MATV distribution networks. It supports satellite, terrestrial TV and DAB signal distribution across a 5 MHz to 2.4 GHz frequency range with high shielding and directional DC/AC power pass from RF outputs to input.

3-Way Coaxial splitter	5–2400 MHz Wideband frequency range
110 dB High shielding	24V / 0.5A DC/AC power pass

Professional SAT-IF and MATV splitter for indoor coaxial distribution systems

Description & Key Features

DESCRIPTION

The MC-DSP-03S is a professional 3-way indoor coaxial splitter engineered for SAT-IF and MATV distribution networks. It is suitable for DVB-S/S2 satellite systems, DTT/COFDM terrestrial TV, and DAB signal distribution applications.

The splitter operates across a wide 5 MHz to 2.4 GHz frequency range and provides directionally coupled DC/AC power pass from all RF outputs to the input through diode protection, supporting practical installation in powered coaxial distribution systems.

With a zinc die-cast housing, tin plating and soldered back plate construction, the unit provides strong mechanical stability and high shielding performance for reliable RF signal distribution in residential and commercial environments.

01 SAT-IF & MATV Distribution Designed for satellite IF, terrestrial TV and DAB signal distribution networks.	02 Wideband 5–2400 MHz Operation Supports a broad frequency range from 5 MHz up to 2.4 GHz for mixed RF applications.
03 Directional Power Pass DC/AC pass-through up to 24V / 0.5A from all RF outputs to the input via diodes.	04 High Shielding Design Zinc die-cast housing with tin plating and soldered back plate for 110 dB shielding performance.
05 F-Female Connectors Equipped with F-female connectors for standard coaxial RF installation.	06 Compact Indoor Installation Compact body size supports clean installation inside cabinets and distribution points.

Application Note

A compact 3-way splitter for indoor SAT-IF and MATV coaxial distribution networks requiring wideband performance, DC power pass and high shielding integrity.

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Technical Specifications

GENERAL INFORMATION	
Model	MC-DSP-03S
Splitter Type	3-way
Item Reference	349823
EAN Code	5061038080834
Connector Type	F-female connectors
Application	SAT-IF, MATV, DTT/COFDM and DAB distribution

FREQUENCY & POWER PASS	
Frequency Range	5 MHz to 2.4 GHz
Power Pass	Max. 24V / 500mA
Power Pass Direction	Directionally coupled by diodes from all outputs to input

INSERTION LOSS IN-OUT	
5-40 MHz	<=7.5 dB
40-1000 MHz	<=8.2 dB
1000-1750 MHz	<=9.5 dB
1750-2150 MHz	<=10.5 dB
2150-2400 MHz	<=11.5 dB

RETURN LOSS IN-OUT	
5-40 MHz	>=8 dB
40-1000 MHz	>=11 dB
1000-1750 MHz	>=10 dB
1750-2150 MHz	>=10 dB
2150-2400 MHz	>=10 dB
Return Loss Grade	Grade 3

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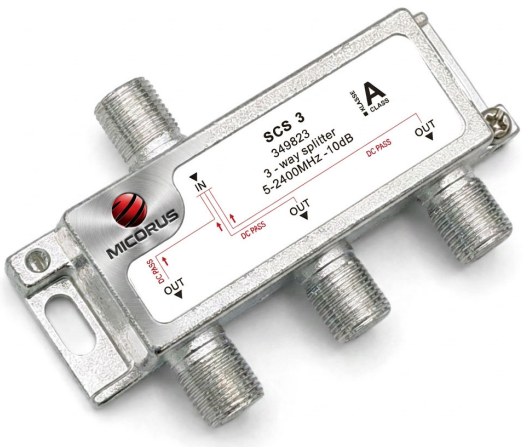
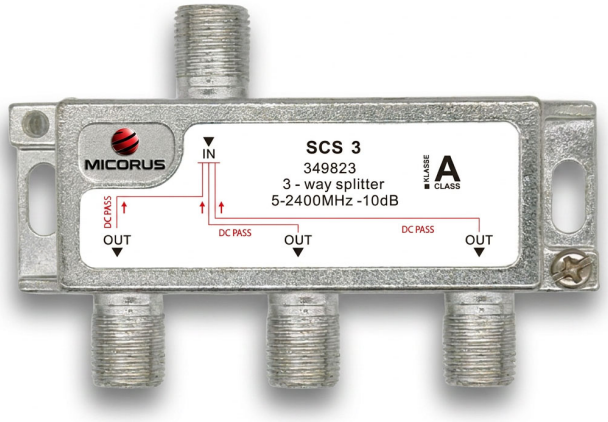
Technical Specifications

ISOLATION OUT-OUT	
5-40 MHz	>=20 dB
40-1000 MHz	>=21 dB
1000-1750 MHz	>=20 dB
1750-2150 MHz	>=20 dB
2150-2400 MHz	>=20 dB
DC Support on Trunk Line SAT / TER	On all 4 polarities VL/VH/HL/HH; TER no DC pass
Trunk Max. Current Pass per Line	2A
DC Injection Max. Current	3A

MECHANICAL & ENVIRONMENT	
Housing	Zinc die-cast housing with tin plating and soldered back plate
Shielding	110 dB
Operating Temperature	-30°C to +60°C
Size (W x H x D)	85 x 53 x 19 mm
Net Weight	50 g