

2 Way Power Divider

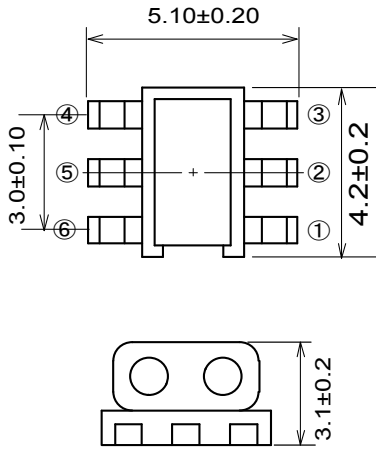
EDK1002-C008022

2021-05-05 Rev. 1

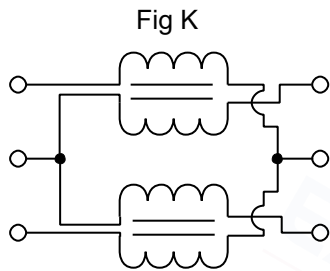


50Ω & 75Ω 2 Way Power Splitter 5-1600 MHz

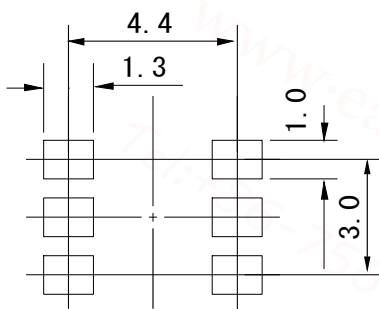
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

PORT1	1
PORT2	3
PORT3	4
EXT. RESISTOR 180Ω	3, 4
EXT. CAPACITOR 0.5pF	2 to Ground
EXT. CAPACITOR 0.5pF	5 to Ground

Features

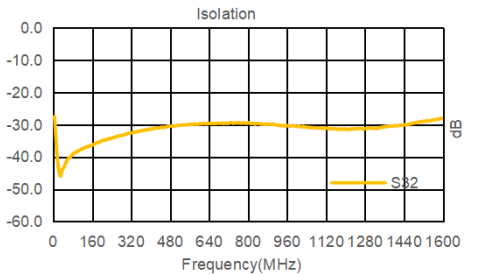
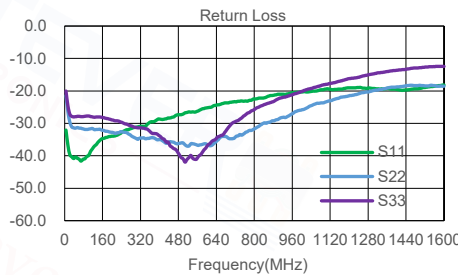
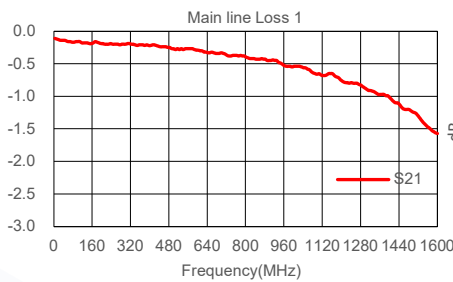
- DC current: 50mA
- 260°C Reflow Compatible
- RoHS Compliant and Pb Free
- Power Input(as a splitter): 1.0W Max
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

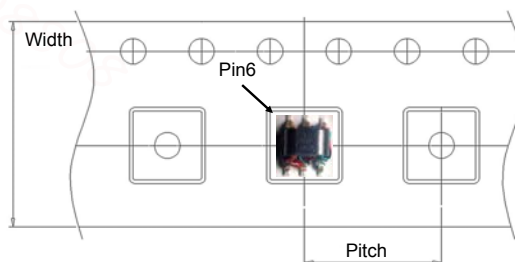
- For CATV broadband and wireless communications
- For CATV VHF/UHF receivers/transmitters
- For CATV power tap
- Can be used in both 50Ω and 75Ω systems

Electrical Specifications:TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Out1)	5-1600MHz	dB	—	0.5	2.0
Main line Loss (Out2)	5-1600MHz	dB	—	1.3	3.0
Return Loss(Pin1)	5-1600MHz	dB	10.0	32.0	—
Return Loss(Pin4)	5-1600MHz	dB	12.0	30.0	—
Return Loss(Pin3)	5-1600MHz	dB	9.0	28.0	—
Isolation(Pin3-4)	5-1600MHz	dB	18.0	30.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	5.50
Bo	mm	4.60
Ko	mm	3.20

2 Way Power Divider

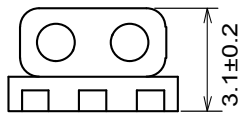
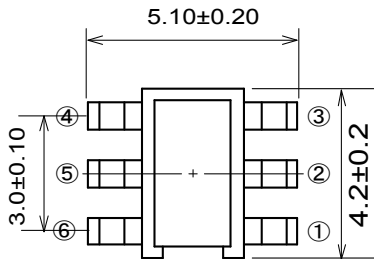
EDK1002-C008022

2021-12-02 Rev. 2



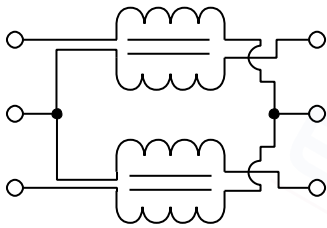
50Ω Power Splitter 5-1250 MHz

Outline Drawing(mm)

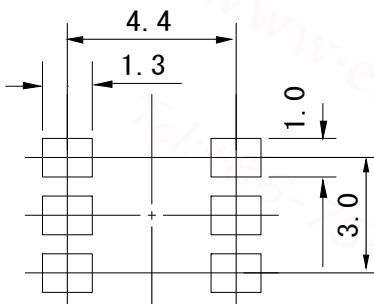


Electrical structure

Fig K



Recommended layout(mm)



Pin Connections

PORT1	1
PORT2	3
PORT3	4
EXT. RESISTOR 100Ω	3, 4
EXT. CAPACITOR 0.5pF	2 to Ground
EXT. CAPACITOR 0.5pF	5 to Ground

Features

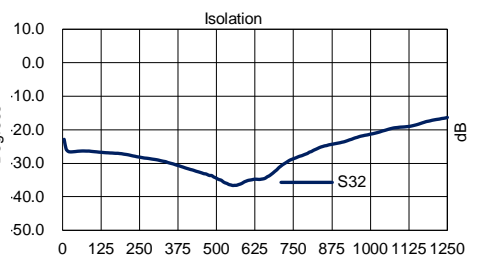
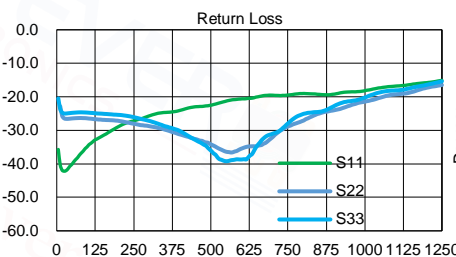
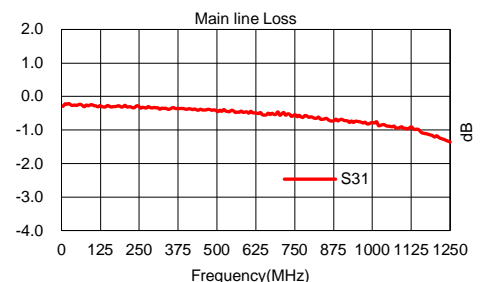
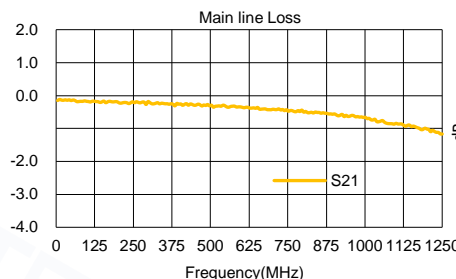
- Excellent Temperature Stability
- RoHS Compliant and Pb Free
- 260°C Reflow Compatible
- Power Input(as a splitter): 1.0W Max
- DC current: 50mA
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

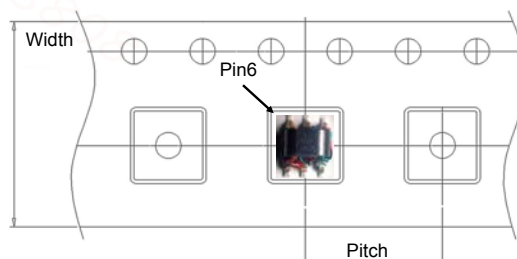
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

Electrical Specifications:TA=25 °C , 0dBm, Z0=50Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Out1)	5-1250MHz	dB	—	0.8	1.5
Main line Loss (Out2)	5-1250MHz	dB	—	1.0	1.8
Return Loss(Pin1)	5-1250MHz	dB	13.0	20.0	—
Return Loss(Pin4)	5-1250MHz	dB	13.0	20.0	—
Return Loss(Pin3)	5-1250MHz	dB	13.0	20.0	—
Isolation(Pin3-4)	5-1250MHz	dB	16.0	20.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	5.50
Bo	mm	4.60
Ko	mm	3.20