M/A-COM

Dual Junction Drop-In Isolator



Features

- 50 dB Isolation Typical, 0.40 dB Insertion Loss Typical
- Custom Products Available with Alternate Configurations such as Couplers, Attenuators, Higher Power Terminations, Reverse Circulation and Termination on Ports 1 or 2
- Designed for Wireless Telecommunications Systems: AMPS, N-AMPS, D-AMPS

Description

M/A-COM's drop-in isolators, designed for cellular applications, feature high performance at low cost. These designs offer the best isolation per insertion loss ratio in the industry and are currently produced in the tens of thousands of pieces per year. These units can be ordered so as to be compatible with solder reflow manufacturing techniques. Both circulators and isolators are in stock at all authorized M/A-COM distributors.

Part Number	Frequency Range (MHz)		
FR21-0001	869 – 894		
FR21-0002	925 – 960		
FR21-0003	1805 – 1880		
FR21-0004	1930 – 1990		

FR21 .13±.020 3,1±0,51 2.00 ±.010 -2X 50,8 ±0,25 $\frac{1.760}{44.7}$ 120 .120 2X 3,05 3,05 .31±.01 7.9±0.25 Ð 2X - [] 2 MACOM .820 20,8 2X ER21-SERIES SN XXXXXXXX .050 1,3 1.000±.010 2χ 25,4 ±0,25 .114 2,9 THRU 4X .050 1.27 Ζ4χ X 45° 50 WATT INTERNAL TERMINATION .450 11,43 MAX .062 1,57 $\frac{.062 + .000}{1,57 + 0}$ 2X (TAB HEIGHT) 2X .005 (TAB THICKNESS)

Electrical Specifications

		-10 to +70° C		
Parameter	Units	Min.	Тур.	Max.
Isolation	dB	45	50	
Insertion Loss	dB	—	0.4	0.5
Forward Power	Watts	—	—	100
Reflected Power	Watts	—	_	60
VSWR	—	—		1.20



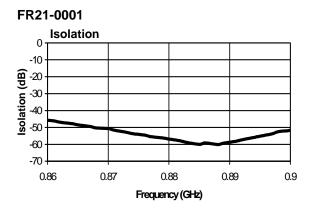
V3.00

M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel.+85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

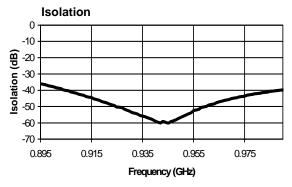
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Typical Performance, T = +25°C

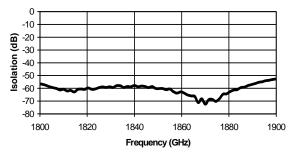








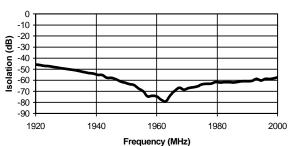
Isolation

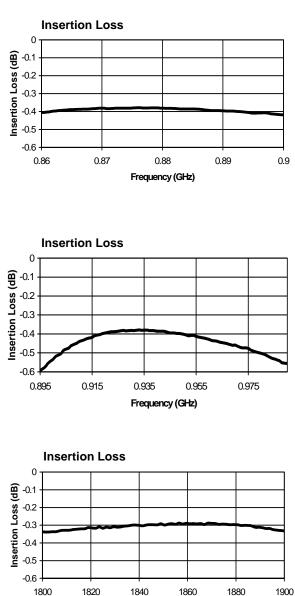


FR21-0004

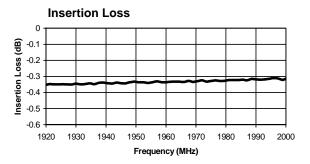
www.macom.com

Isolation





Frequency (GHz)



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