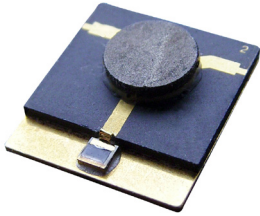


Low power microstrip isolators

I7696/A, I94118/A and I104124/A



The I7696/A, I94118/A and I104124/A low power microstrip isolators were designed to be in a next generation GEO HTTP satellite and used in a filter demultiplexer application. These low power microstrip isolators are intended to be used within a hybrid construction and must be wire bonded into the user's circuit. Key performance requirements include electrical performance and operating bandwidth.

Specifications

Low Power Microstrip	Performance		
Part Number	I7696/A	I94118/A	I104124/A
Function	Isolator	Isolator	Isolator
ICD	B108433	B108436	B108439
Non-operating	-65 to +180C	-65 to +180C	-65 to +180C
Acceptance	-45 to +85C	-45 to +85C	-45 to +85C
Impedance	50 Ohms	50 Ohms	50 Ohms
Operating Frequency	7.3 to 9.6 GHz	9.4 to 11.8 GHz	10.4 to 12.4 GHz
Insertion Loss	0.35dB	0.35dB	0.35dB
Return Loss	20 dB min	20 dB min	20 dB min
Isolation	20 dB min	20 dB min	20 dB min
Power handling	2W CW	2W CW	2W CW
Mass	<0.5g nom	<0.5g nom	<0.5g nom
Resistance to case	50 Ohms nom	50 Ohms nom	50 Ohms nom
Port arrangement	T	T	T
Environment	Space, hybrid application	Space, hybrid application	Space, hybrid application