

# High power coaxial isolators

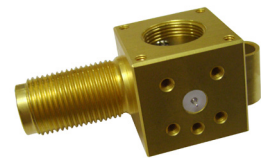
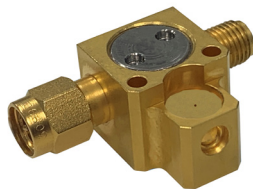
I7090/B, I8085/H and I8084/B



The I7090/B, I8085/H and I8084/B high power coaxial isolators were designed and space qualified to be used on the outputs stages of Solid State Power Amplifiers. These devices are used during space critical missions including launch and payload deployment and feature CVD terminations produced by Smiths Interconnect. Devices are available finished with Nickel plating however Au plating is recommended to maximize multiplication margin. Key performance requirements include power handling under partial pressures and qualification data is available.

## Specifications

Low Power Coaxial	Performance		
Part Number	I7090/B	I8085/H	I8084/B
Function	Isolator	Isolator	Isolator
ICD	B104322	B109126	B107732
Non-operating	-45 to +125C	-45 to +125C	-45 to +125C
Acceptance	-30 to +85C	-30 to +85C	-30 to +85C
Impedance	50 Ohms	50 Ohms	50 Ohms
Operating Frequency	7.0 to 9.0GHz	8.0 to 8.5GHz	8.0 to 8.5GHz
Insertion Loss	0.50dB max	0.35dB max	0.25dB max
Return Loss	19 dB min	21 dB min	23 dB min
Isolation	19 dB min	21 dB min	23 dB min
EMC	80dBi	80dBi	80dBi
Power handling [fwd & rev]	20W CW	10W CW	15W CW
MP margin	+6dB min by test	+7dB min by test	+6dB min by test
Mass	25g nom	27g nom	55g nom
Interface	SMA to SMA	Tab to SMA	Pin to TNC
Environment	Space	Space	Space



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