

DCI0010F1V3

DC INSERTER

Designed to be deployed either indoor or outdoor to insert DC power or AISG OOK signals onto RF feeder cables in cellular base station systems, the DCI0010F1Vx has the following features and benefits:

FEATURES

- Excellent PIM performance
- Wide frequency band of operation
- Indoor or outdoor use
- Excellent lightning protection



TECHNICAL SPECIFICATIONS

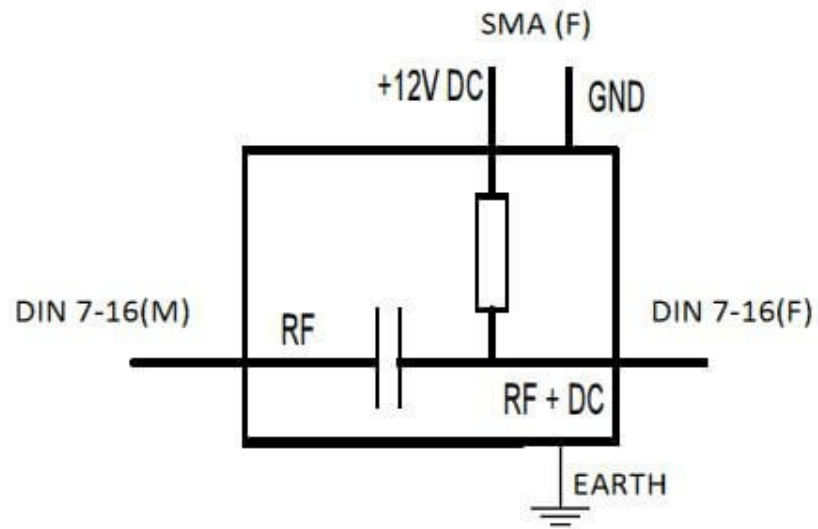
RF	
Passband	698 - 2700MHz
Return loss	20dB minimum
Insertion loss	0.2dB maximum
Maximum input power with no damage	200W (average) maximum
RF to DC port isolation	50dB
Intermodulation, passive	<155dBc with 2 x 20W carriers
ELECTRICAL	
RF impedance	50ohms
DC	
Voltage rating	+40V DC
Current rating	2.2A Continuous, 4A Peak maximum
DC resistance DC input to feeder	<0.5ohm
Return loss 2.076 - 2.276MHz	15dB minimum V3 and V4 versions only
Insertion loss 2.076 - 2.276MHz	0.7dB maximum V3 and V4 versions only
ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-40°C to +65°C -40°F to +140°F
Ingress protection	IP67
Lightning protection	DC port = 2KA IEC 61000-4-5 8/20us waveform RF ports = 10KA IEC 61000-4-5 8/20us waveform multiple strikes
MTBF	>500,000 hours
MECHANICAL	
Dimensions H x D x W	55 x 95 x 40mm 2.16 x 3.74 x 1.57in
Weight	0.7kg 1.54lbs
Connectors	1 x DIN 7/16(M), 1 x DIN 7/16 (F), DC/AISG passed to either connector; see ordering information for details
Connector 1	DC in = SMA female
Protective earth	M6 stud

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DCI0010F1V1	DC Inserter, DC through/from 7/16(F) connector
DCI0010F1V2	DC Inserter, DC through/from 7/16(M) connector
DCI0010F1V3	DC Inserter, DC/AISG through/from 7/16(F) connector
DCI0010F1V4	DC Inserter, DC/AISG through/from 7/16(M) connector

OPTIONAL ACCESSORIES	
PART NUMBER	DESCRIPTION
R18-0731	Cable assembly - PDU to Bias-T SMA to SMA 5m
R18-0732	Cable assembly - PDU to Bias-T SMA to SMA 10m
R18-0810-x	Cable assembly - PDU to Bias-T Molex 2 way to SMA "x"m

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

