

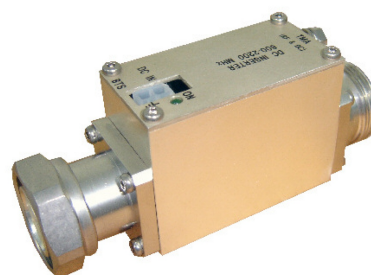
DCI0001F1V1

DC INSERTER

Designed to be deployed as an indoor DC inserter, or bias-T, in cellular base station systems, the Kaelus DCI0001F1Vx provides high quality performance.

FEATURES

- Primary surge protection fitted to the DC input
- LED indicator to show the presence of DC power
- Designed to handle the high RF power levels of TX carriers associated with duplex tower mounted amplifiers
- Can be mounted in a cable tray or directly onto the BTS RF connector



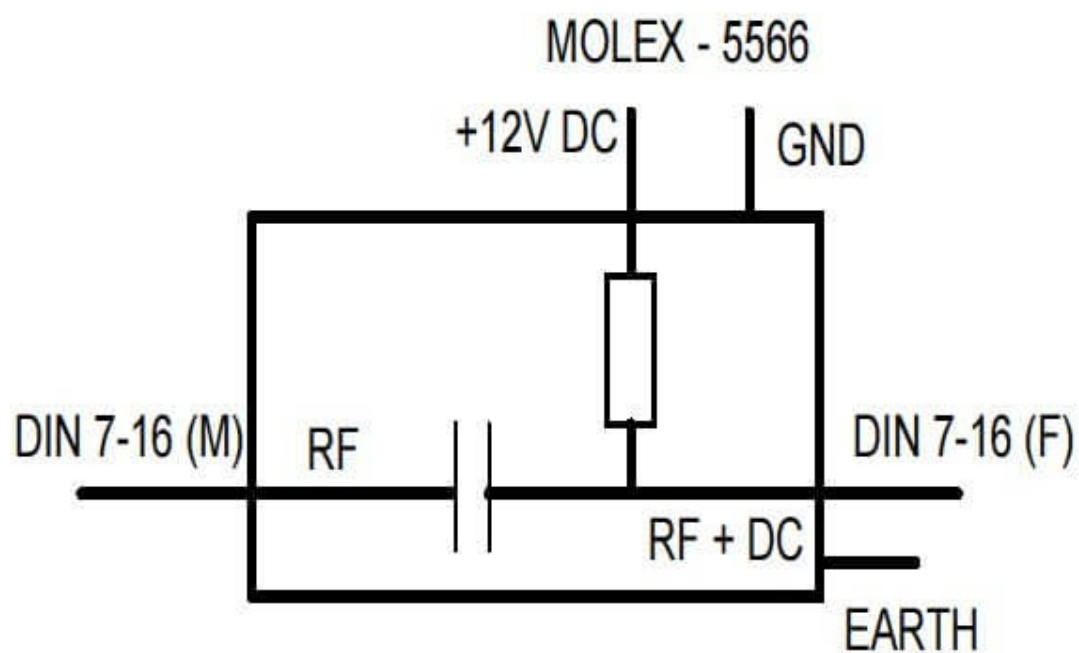
TECHNICAL SPECIFICATIONS

RF	
Passband	880 - 2200MHz
Return loss	21dB minimum input and output
Insertion loss	0.1dB maximum
Maximum input power with no damage	200W (average) maximum
RF impedance	50ohms
Intermodulation, passive	<-155dBc with 2 x 20W carriers
DC	
Voltage rating	+40V DC (limited by surge protect circuits)
Current rating	5A maximum
Power present indication	Green LED (power applied)
ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-20°C to +55°C -4°F to +131°F
Ingress protection	Indoor use only
Lightning protection	IEC-801-5, 8/20µs, ±10kA maximum, 10strikes each
MTBF	>500,000 hours at 22°C indoor
MECHANICAL	
Finish	Aluminium
Connectors	DC in = molex, mini-fit junior (2-way)
Connector 1	RF to BTS = 7/16 male
Connector 2	RF to antenna = 7/16 female

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DCI0001F1V1	DC inserter, 7/16 (M) to the BTS including R18-0401, 6.0m/19.7ft PDU to DCI cable
DCI0001F1V4	DC inserter, 7/16 (M) to the BTS including R18-0527, 2.0m/6.6ft PDU to DCI cable
OPTIONAL ACCESSORIES	
PART NUMBER	DESCRIPTION
R18-0401	Molex to molex cable assembly for connection from PUD000x to DCI0001 DC inserter, 6.0m/19.7ft
R18-0527	Molex to molex cable assembly for connection from PUD000x to DCI0001 DC inserter, 2.0m/6.6ft
R90-PDU0003FxVx	6-way power distribution and alarm unit, high power

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

