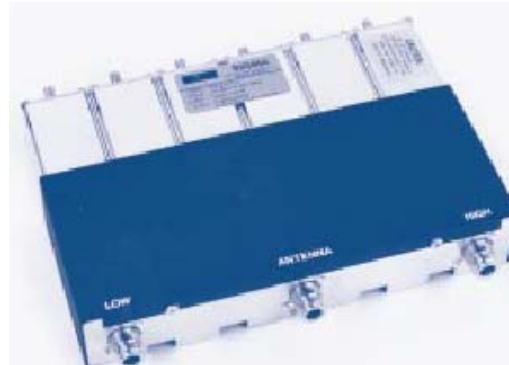


TCL 810 Series VHF Base Station Duplexers 68-88 MHz



Consistent 80 dB isolation Between Transmitter And Receive
High Q 38 mm Silver-Plated Helical Resonators
Suitable for Fixed or Mobile Applications



VHF duplexer, type TCL810 is a six- cavity device providing a high level of isolation – more than 80dB – between transmit and receive ports. The helical resonators used are silver-plated and coupled with high quality coaxial line to give a low overall insertion loss in all paths.

ELECTRICAL SPECIFICATIONS		TCL 810
Frequency Range		68-88 MHz
Maximum Insertion Loss:		
Transmitter Antenna		1 dB
Receiver -Antenna		1 dB
Minimum Isolation:		
Transmitter- Antenna		80 dB
Receiver- Antenna		80 dB
Maximum VSWR		1.5:1 Typical
Operating Temperature		-20° to +55° C
Maximum Input Power:		100 Watts
Impedance		50 ohms
MECHANICAL SPECIFICATIONS		
Termination:		Type N Socket
Number of Cavities		6
Overall Dimensions: (H x W x D)mm		40 x 235 x 220
Weight		2 Kg
Chassis Mount Version		Add suffix/CH
STANDARD MODELS		
Frequency	Model No.	Nominal Tx/Rx Frequency Separation
68-83 MHz	TCL810/5L	4-6 MHz
73-88 MHz	TCL810/5H	4-6 MHz
68-88 MHz	TCL810/10	9-11 MHz
68-88 MHz	TCL810/13	12-14 MHz

Typical Response Curves – TCL810

