

- ◆ Combines bands for co-located BTS or In-building Systems
- ◆ High Input Isolation and Power
- ◆ Selectable DC/AISG Paths
- ◆ Low Passive IM., PIM
- ◆ Conforms to AISG and RoHS
- ◆ Single or Dual Wall/Mast Mounting
- ◆ Moisture Release System

Microlab Model BK-25 series is a cavity Diplexer which allows combination and separation of signals in the GSM-1800 and UMTS wireless bands. Attention to mechanical design, ensures low loss, low passive intermodulation and high reliability. All configurations of DC by-pass/AISG available when ordering. (03/09).

DC/AISG Path Requirement		Model No.	
Common (P1) path to GSM (P2)	UMTS (P3)	w/Single Mount Kit	w/Dual Mount Kit
none	DC Path	BK-25AD	BK-25ED
DC Path	none	BK-25BD	BK-25FD
DC Path	DC Path	BK-25CD	BK-25GD
none	none	BK-25DD	BK-25HD

Insertion Loss/Isolation: Common (Port 1) to Band, MHz

	Port 2 (1710-1880)	Port 3 (1920-2170)
GSM-1800 (Port 2)	0.2 dB typ 0.5 dB max	>65 dB
UMTS-2100 (Port 3)	>65 dB	0.2 dB typ 0.5 dB max



BK-25GD
Dual Unit Diplexer

GSM-1800 Passband: 1710 - 1880 MHz (Port 2)
UMTS-2100 Passband: 1920 - 2170 MHz (Port 3)
Return Loss, all ports: 18 dB min.
Power Rating: 250W avg., 1 kW pk. max.
Impedance: 50Ω nominal
Intermod. (PIM IM3): <-140 dBc* (with 2 x +43dBm tones into common port, P1)
AISG/DC Continuity**: 2.5A max (to AISG & 3GPP)
Environment: IP67, -40°C to +60°C
Surge Protection: 5 kA using 8/20us pulse
Finish: Connectors: 7-16 (f) long neck triplated
Housing: Passivated aluminum/Paint
Weight, single, nom: 5.7 lbs., 2.6 kg with bracket

*<-150 dBc optional

**On selected DC paths

