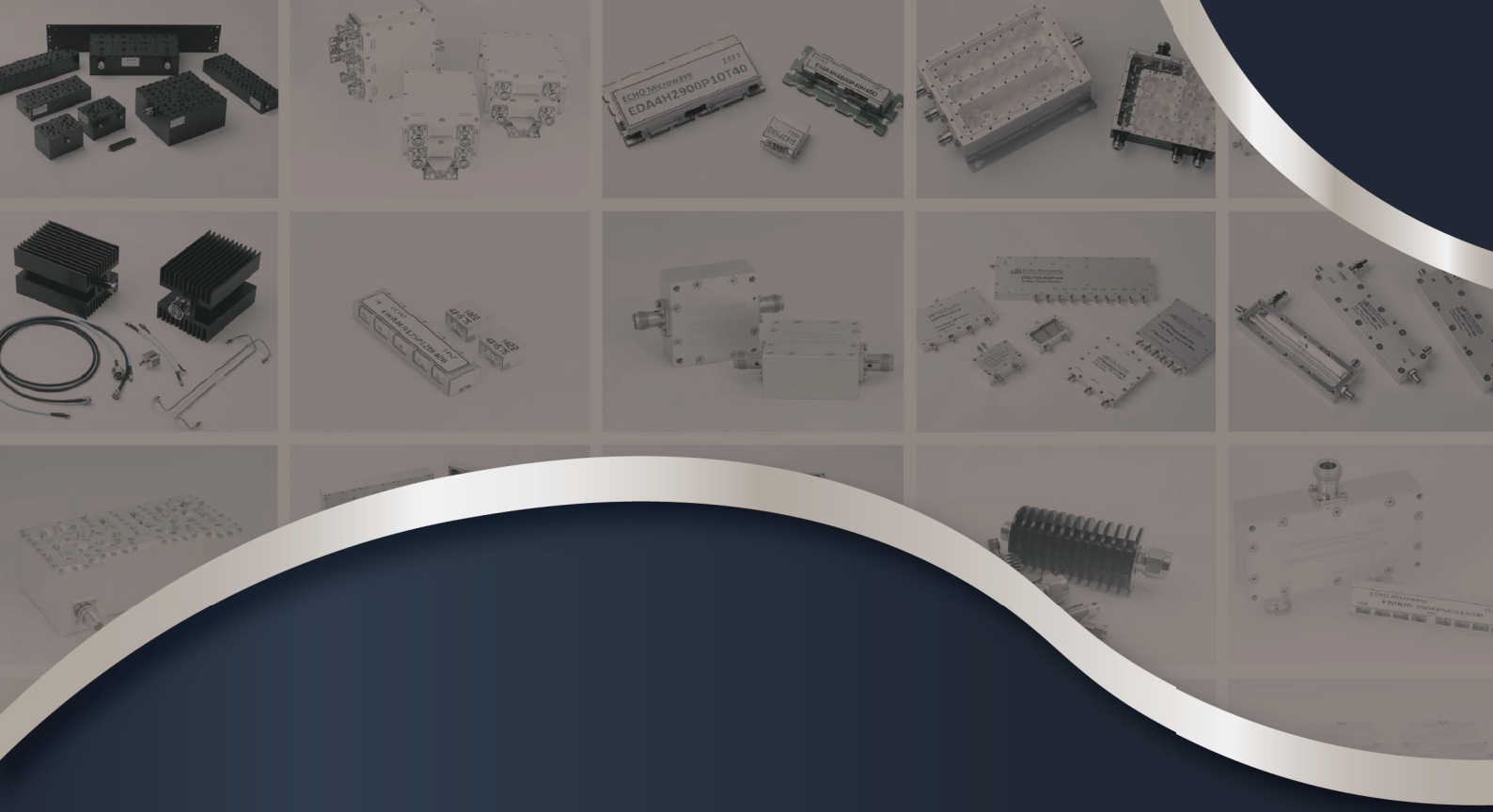
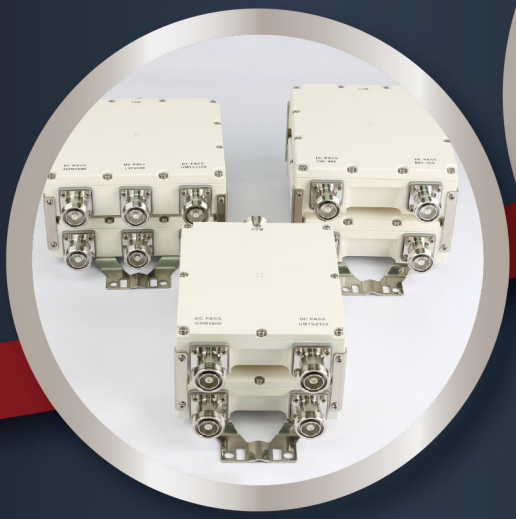


Low PIMD Products

- Cavity Combiner
- Terminator
- Cable Assembly



ECHO Microwave

ECHO Microwave Co., Ltd.

Cavity Combiners

ECHO's Cavity Combiners are designed for combining different frequencies and it is used near the BTS or in a reciprocal function near the antenna. Our combiner solutions have Low PIMD value and it has single or dual layer options.

Features

- Design for Co-siting system
- Low Passive Intermodulation (-155dBc min@43dBm /2tone)
- DC Pass /AISG Transparency Available
- Built in Lightin g Protection
- Indoor or Outdoor usage
- Wall or Pole Mounting
- Single or Double layer options
- Gore-Tex Function

Cavity Combiners

No.	Part Number	Frequency (MHz)	I.L in BW (dB, max.)	V.S.W.R (max.)	Isolation P to P (dB, min.)	PIMD @ 2x20W (3rd order)
1	EHC1880FS1920A50CMPDAK (Single Unit)	1710~1880 1920~2200	0.35	1.20	55 50	-155 dBc
2	EHC2180FS2400A50CMPDSAK (Single Unit)	1710~2180 2400~2700	0.20	1.25	55 50	-155 dBc
3	EHC862FS880A50CMPDAK (Single Unit)	790~862 880~960	0.40	1.25	50	-155 dBc
4	EHC2180FS2400A50CMPDAK (Single Unit)	1710~2180 2400~2700	0.20	1.25	55 50	-155 dBc
5	EHC1880FD1920A50CMPDA (Double Unit)	1710~1880 1920~2200	0.35	1.20	55 50	-155 dBc
6	EHC803F842A30CSMPA (Single Unit)	689~803 842~894	0.4	1.25	30	-155 dBc
7	EHC-FL12TL8_L1-A50CMPDAKS (Single Unit)	698~960 1920~2170	0.20	1.25	50	-155 dBc
8	EHC-FL12TL8_L3TL7-A50CMPDAKS (Single Unit)	698~960 1710~2690	0.30	1.25	50	-155 dBc
9	EHC-FL20L8_L3L1-A50CMPDAKS (Single Unit)	790~960 1710~2170	0.20	1.25	50	-155 dBc
10	EHC-FL3L1L30L7-A50CMPDAKS (Single Unit)	1710~1880 1920~2170 2300~2690	0.40	1.25	50	-155 dBc
11	EHC1755C2100R1850A50CMPAK (Single Unit)	2110~2155	0.40	1.25	50	-155 dBc
12	EHC960ES1710MS2490A50CMPDAK (Single Unit)	790~960 2490~2690	0.20	1.25	50	-155 dBc
13	EHC-FL12TL8L3L1-A50CMPDAKS (Single Unit)	698~960	0.30 0.40 0.40	1.25	50	-155 dBc
14	EHC-FL20L8L3L1-A50CMPDAKS (Single Unit)	698~960 2300~2690	0.30	1.25	50	-155 dBc
15	EHC-FTL8L3L1L7-A45CMPDAKS (Single Unit)	2500~2690	0.2 0.3 0.3 0.2	1.25	45	-155 dBc

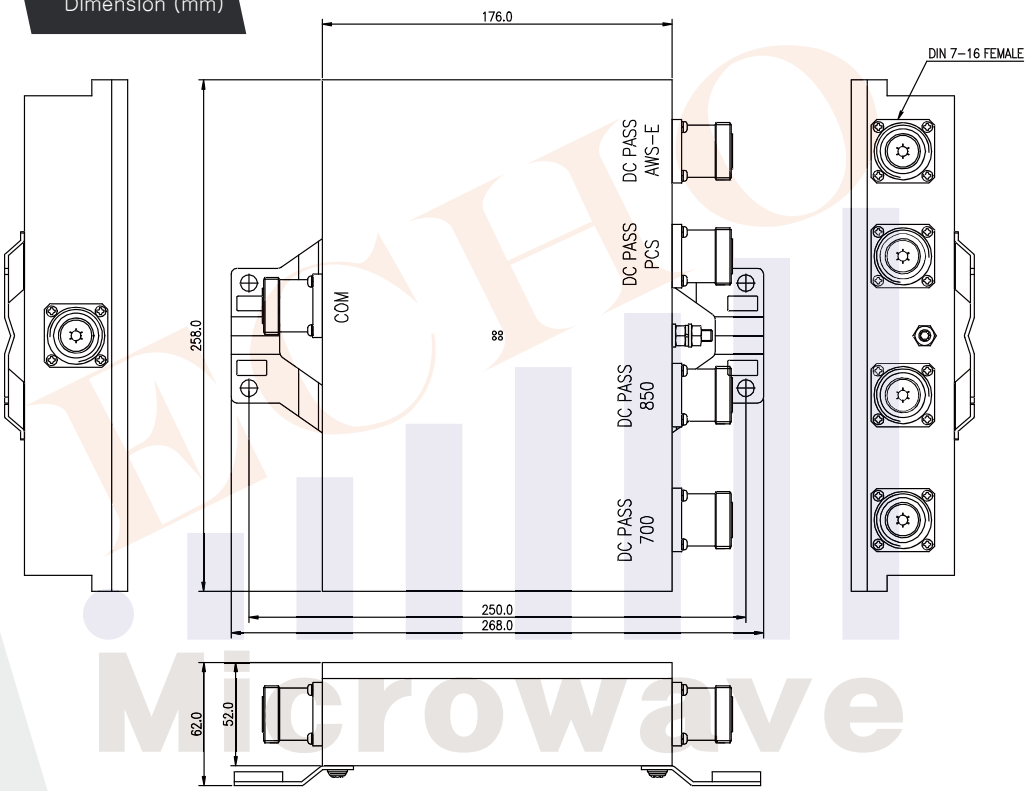
ECHO Microwave Co., Ltd.

NEW PRODUCT !!

EHCE-L07G08P19AWE-A50CMPK

No.	Parameter	Unit	Specification			
			LTE-700	GSM-850	PCS1900	AWS-E
1	Frequency Range	MHz	698~787	817~896	1850~2000	1695~1780/ 2110~2180
2	Insertion Loss in BW	dB	0.5 max.			
3	Return Loss in BW	dB	All ports 18.0 max.			
4	Interband Isolation	Watt	50 min.			
5	Input Power Rating	Ω	250W CW max.			
6	IN/OUT Impedance	dBc	50			
7	PIMD**	℃	-161 min. @ 2x43dBm (All bands)			
8	Operating Temp. Range	-	-33~ +65			
9	Connector	-	7/16 Female or 4.3-10 Female (IP67)			
10	Application	-	Indoor or Outdoor (IP67)			
11	DC/AISG Transparency	-	Connection: DC Pass on all ports Max. Current: 2A continuous; 4A peak Max Voltage: ±33V OOK Insertion Loss: <0.8 dB at 2.170MHz OOK Return Loss: >12 dB			
12	Lightning protection	-	8/20us, ±5kA max.			
13	Mounting	-	Wall mounting bracket			
14	Finish	-	Grey Epoxy Painting			
15	Ground Lug	-	M6 Screw			

Dimension (mm)



ECHO Microwave Co., Ltd.

Low PIM Terminators and Cable Assemblies

ECHO Microwave offers Low PIM Terminators for the medium power, 50W and it has Low PIM as low as –160dBc. Our terminators have two connectors in one body and you have the same performance at both ports.We also provide Low PIM Cable assemblies operating from DC to 3GHz and it has a good passive intermodulation(- 165dBc min @2x43dBm). The application for these cable assemblies is for PIMD measurement and the cable type is 3/8" Supper-Flex. N(Male) to 7/16 DIN(Male) and N(Male) to N(Male) are available.

Terminators

Part Number	Frequency (MHz)	Return Loss (dB. max.)	Imp (ohms)	Power (Watt.)/PIMD	Temp. Range (℃)	Connector
ET2700P50CFMM	698~2700	18.0	50	50 max. -160 dBc min.@ 2 X 43dBm	-25~+75	7/16 DIN(F) 7/16 DIM(M)
ET2700P50BFMAMP	698~2700	18.0	50	50 max. -160 dBc min.@ 2 X 43dBm	-25~+75	N (Female) N (Male)
ET2700P50BFMM	698~2700	18.0	50	50 max. -160 dBc min.@ 2 X 43dBm	-25~+75	N (Female) N (Male)
ET2700P50CFMAMP	698~2700	18.0	50	50 max. -160 dBc min.@ 2 X 43dBm	-25~+75	7/16 DIN (F) 7/16 DIN (M)

Cable Assemblies

Part Number	Operating Frequency (MHz)	Cable Type	Power (Watt.) / PIMD	Impedance (Ohms)	Connector
EC3000CB1200M-SUPERFLEX3/8	DC~3000	3/8" Super - Flex	300 max. -165 dBc min.@ 2 X 43dBm	50	N Male Din(7/16) Male
EC3000BB1200M-SUPERFLEX3/8	DC~3000	3/8" Super - Flex	300 max. -165 dBc min.@ 2 X 43dBm	50	N (Female) N (Male)

Contact information

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