

- The CP Clare MIT-101 and MIT-115 Series "Wet" Modem Isolation and MIT-125 Series "Dry" Modem Isolation Transformers are part of a product-family which covers a wide spectrum of price and performance. The MIT-101 and MIT-115 are cost-effective "wet" couplers which provides 1250 VAC dielectric input/output isolation. The MIT-125 is a high-performance "dry" coupler which provides 1250 VAC dielectric input/output isolation.

MIT-101 and MIT-115

- Cost-Effective "Wet" Coupler Construction
- Reflects 600 Ohms on Pri (470 Ohms on Sec)
- Small PCB Footprint (23mm x 24mm x 12mm)
- Low Profile (<0.472 inches)
- 1250 VAC Input/Output Dielectric Isolation
- UL/CSA Recognized File Number: E171120
- Suitable for Modem Speeds up to V.29 (MIT-101)

MIT-125

- High Performance "Dry" Coupler Construction
- Reflects 600 Ohms on Pri (374 Ohms on Sec)
- Small PCB Footprint (26mm x 24mm x 12mm)
- 1250 VAC Input/Output Dielectric Isolation
- Low Total Harmonic Distortion
- Suitable for Modem Speeds up to V.32 Bis
- UL/CSA Recognized File Number: E171120

Parameter	Min	Nom	Max	Units
Operational Temperature	-40		105	C
Storage Temperature	-40		125	C
Soldering Temperature (10 Sec Max)			260	C

Clare

Modem Isolation Transformers

Electrical Performance Specification

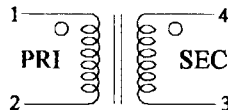
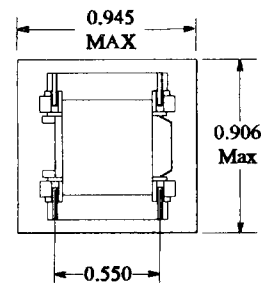
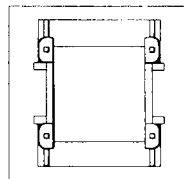
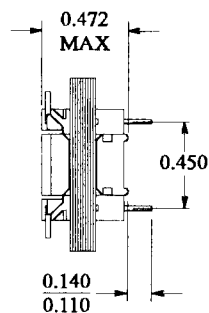
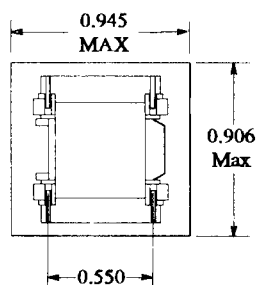
Performance Parameters	MIT-101					MIT-115
	Conditions	Min	Nom	Max	Units	Conditions
Frequency Response	300 Hz - 600 Hz	-4.00	0.00	4.00	dB	300 Hz - 600 Hz
	600 Hz - 3500 Hz	-1.00	0.00	1.00	dB	600 Hz - 3500 Hz
Insertion Loss	@ 1 kHz with 30 mADC			2.50	dB	@ 1 kHz, 0 mADC @ 1 kHz, 100 mADC
Return Loss	200 Hz - 500 Hz	5.00			dB	300 Hz - 3000 Hz
	500 Hz - 4000 Hz	8.00			dB	
Longitudinal Balance	60 Hz - 1000 Hz	60			dB	60 Hz - 1000 Hz
	1000 Hz - 4000 Hz	40			dB	1000 Hz - 4000 Hz
Total Harmonic Distortion						
DC Resistance	Primary Winding	97	108	119	Ohms	Primary Winding Secondary Winding
	Secondary Winding	108	120	132	Ohms	
DC Current in Primary				100	mADC	
Turns Ratio	Pri to Sec, 1 kHz	1.00:0.98	1.00:1.00	1.00:1.02		Pri to Sec, 1 kHz
Input/Output Isolation		1250			VAC	

Note: (101) + (115) : All Electrical Performance Specifications are at 20°C unless otherwise specified.

- Designed to reflect 600 Ohms on Primary with 470 Ohms Secondary load
- UL/CSA Recognized File Number: E171120

Mechanical Dimensions

MIT-101

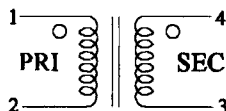
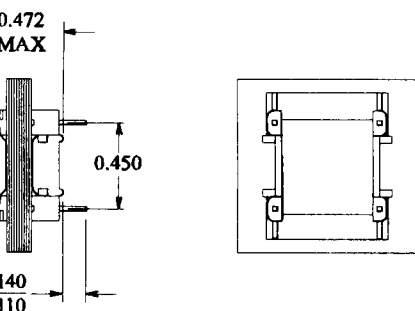


					MIT-125				
	Min	Nom	Max	Units	Conditions	Min	Nom	Max	Units
	-2.50	0.00	2.50	dB	200 Hz - 4000 Hz	-0.25	0.00	0.25	dB
	-0.65	0.00	0.65	dB					
	1.50	2.00	2.50	dB	@ 1 kHz	1.75	2.00	2.25	dB
	TBD			dB	300 Hz - 3000 Hz	20			dB
	60			dB	200 Hz - 1000 Hz 1000 Hz - 4000 Hz	60			dB
	40			dB					
					@ 600 Hz, -10 dBm			-76	dB
	97	108	119	Ohms	Primary Winding Secondary Winding	97	108	119	Ohms
	108	120	132	Ohms					
			100	mADC					
	1.00:0.98	1.00:1.00	1.00:1.02		Pri to Sec, 1 kHz	1.00:0.98	1.00:1.00	1.00:1.02	
	1250			VAC		1250			VAC

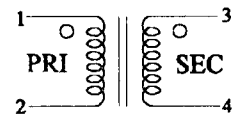
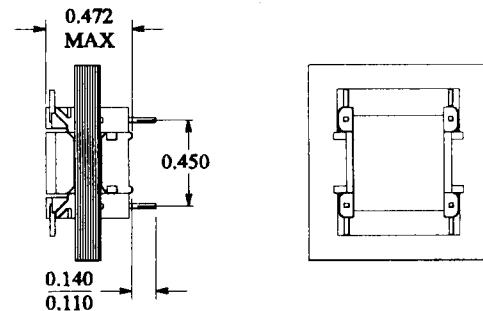
Note: (125) : All Electrical Performance Specifications are at 20°C unless otherwise specified.

- Designed to reflect 6 00 Ohms on Primary with a 374 Ohms Seconary load
- Suitable for Modem Speeds up to V.32 Bis
- UL/CSA Recognized File Number: E171120

-115



MIT-125

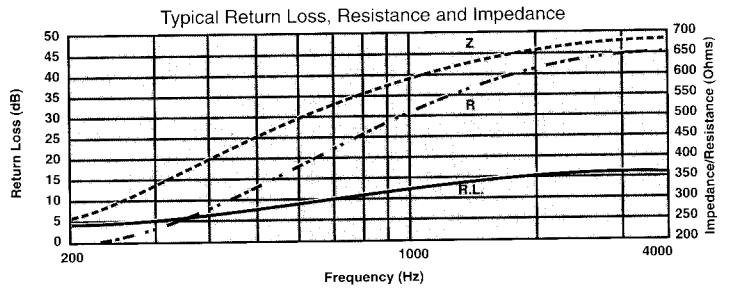
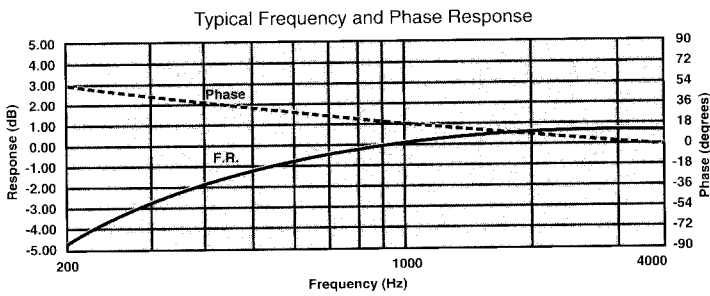


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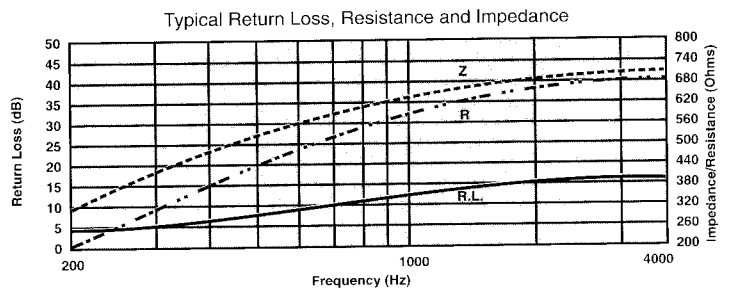
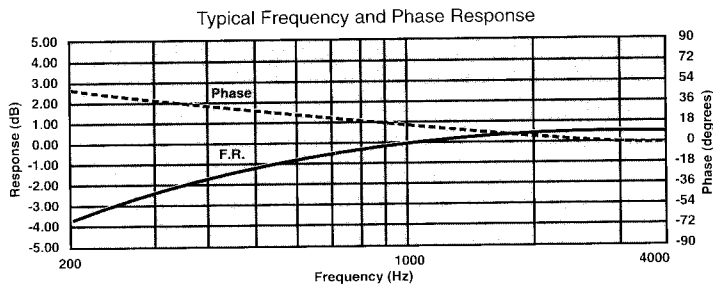
Modem Isolation Transformers

Operating Specifications

MIT-101



MIT-115



MIT-125

